

Report No.: 8003-053
Work Assignment No.: 019-2JZZ
Contract No.: 68-W9-0051
September 30, 1992
Updated: August 15, 1993

Ms. Sandra Foose
Pre - Remedial Assistant WAM
Environmental Services Division
U.S. Environmental Protection Agency
Region II
Edison, NJ 08837

✓ AQB 8/17/93 (updated report)
(neg. report approved by ML - 12/21/92)

RE: National Starch and Chemical Corporation, Environmental Priorities Initiative-Preliminary Assessment

Dear Ms. Foose:

After review of the available information for the Environmental Priorities Initiative - Preliminary Assessment of the National Starch and Chemical Corporation Facility, a recommendation of **SITE EVALUATION ACCOMPLISHED (SEA)** is proposed. The National Starch and Chemical Corporation Facility is located at 10 Findeme Avenue, Bridgewater, Somerset County, New Jersey and has the EPA ID No. NJD001519230. National Starch and Chemical Corporation conducts research and provides administration for the development of adhesives and sealants, plastic materials and resins, and industrial and food starches. The recommendation is based on the following findings:

- On August 15, 1980, National Starch and Chemical Corporation (Bridgewater Facility) submitted a Notification of Hazardous Waste Activity form (#8700-12) to the U. S. Environmental Protection Agency (USEPA) which identified National Starch and Chemical Corporation's status as a Hazardous Waste Treatment, Storage, and Disposal Facility (TSDF) (Ref. No. 1). The USEPA acknowledged National Starch and Chemical Corporation's notification on October 9, 1980 (Ref. No. 9). A General Information form and a Hazardous Waste Permit Application (USEPA Forms 3510-1 and 3510-3, respectively) were submitted on November 18, 1980 (Ref. Nos. 2,3).
- On June 25, 1981, a RCRA Generator Inspection was conducted at the National Starch and Chemical Corporation facility by the New Jersey Department of Environmental Protection and Energy (NJDEPE). Sixty-seven 55-gallon drums containing ignitable wastes and waste solvents were observed in the drum storage area (Ref. No. 4). A TSDF inspection on June 27, 1981, revealed that National Starch and Chemical Corporation was planning to change their classification to Generator Only status (Ref. No. 5).
- On June 28, 1982, in a letter to the U.S. EPA, National Starch and Chemical Corporation requested that they be delisted as a hazardous waste storage facility. This request was based on the fact that National Starch and Chemical Corporation had protectively filed as a hazardous waste storage facility as a precautionary measure. National Starch and Chemical Corporation also stated in this letter that hazardous waste generated would be disposed of within the 90-day generator provisions (Ref. No. 6).
- In a letter dated March 11, 1983, the NJDEPE granted the delisting of the National Starch and Chemical Corporation's Bridgewater Facility from a TSDF to a Generator Only status. This deletion is applicable to NJDEPE's Hazardous Waste Regulations under NJAC 7:26-1 et seq (Ref. No. 7).



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- On July 31, 1992, an on-site reconnaissance was conducted at National Starch and Chemical Corporation's Bridgewater Facility. During the reconnaissance, no obvious soil contamination was observed and there was no evidence of spills in the vicinity of the drum storage area. Hazardous waste is no longer stored in the former drum storage area. Presently, two dumpsters containing recyclable metals and wood are located in this storage area. The area consists of a paved surface bordered by a solvent storage shed on the north, paved access roads on the west and south, and a grass area on the east (Ref. No. 8).


USEPA was notified by NJDEPE of a former chemical dump area at the site used by Johns-Manville Company prior to National Starch and Chemical Corporation's purchase of the property in 1970 (Ref. Nos. 10; 11, pp. 1-2). The Johns-Manville Sales Corporation operated a research facility at the site from 1950 to 1970 (Ref. No. 11, pp. 1-2). Containers of waste materials were apparently packed with dirt in cement pipes which were subsequently buried in a clay lined pit, stabilized with suitable fill and covered with an impervious top (Ref. No. 11, pp. 1, 9). In May 1981, National Starch and Chemical excavated the entire contents of the dump area and had the wastes transported to off-site treatment, storage, and disposal (TSD) facilities through the State manifest system (Ref. Nos. 11, pp. 1-2, 9; 12; 13, pp. 1, 4-7). It was reported that all containers were intact upon excavation and there was no visual evidence of soil contamination (Ref. No. 11, pp. 1, 9). As this waste source no longer exists at the site and the relocation of the wastes meets the terms of a qualifying removal, the former dump area exhibits no significant effect on the overall site evaluation.

The above information, supported by the attached references, indicates that National Starch and Chemical Corporation of Bridgewater, New Jersey filed both a Notification of Hazardous Waste Activity form and a Hazardous Waste Permit Application as protective filing measures. The NJDEPE changed the RCRA permit status of National Starch and Chemical Corporation from a TSDF to Generator Only status. On-site inspection failed to uncover any indication of spills at the site and the fact that the drum storage area is no longer utilized for the storage of hazardous wastes additionally supports the abovementioned recommendation for the National Starch and Chemical Corporation site.

Very truly yours,


ANDREW CLIBANOFF
SITE MANAGER


JOHN D. RIECKHOFF
PROJECT TASK LEADER


DENNIS STAIKEN, Ph.D.
WORK ASSIGNMENT MANAGER

**This Report was conducted
under the following
USEPA Documentation Procedure**

**Guidance for Performing Preliminary
Assessments Under CERCLA
Publication 9345.0-01A**

ATTACHMENT 1

REFERENCES

1. U.S. Environmental Protection Agency (EPA), Notification of Hazardous Waste Activity, EPA Form 8700-12, August 15, 1980.
2. U.S. EPA, General Information, EPA Form 3510-1, November 18, 1980.
3. U.S. EPA, Hazardous Waste Permit Application, EPA Form 3510-3, November 18, 1980.
4. U.S. EPA, RCRA Generator Inspection Form, National Starch and Chemical Corporation Site, June 25, 1981.
5. U.S. EPA, RCRA Treatment, Storage and Disposal Facility Inspection Form for National Starch and Chemical Corporation Site RCRA Inspection, June 27, 1981.
6. Letter from Robert Strain, Safety Administrator of National Starch and Chemical Corporation, to U.S. EPA Region II, June 28, 1982.
7. Letter from Frank Coolick, Chief, Bureau of Hazardous Waste Engineering, New Jersey Department of Environmental Protection to Robert Strain, Safety Administrator, National Starch and Chemical Corporation, March 11, 1983.
8. Field Notebook No. 82-0056, National Starch and Chemical Corporation, On-site Reconnaissance, Preliminary Assessment, Malcolm Pirnie, Inc., July 31, 1992.
9. U.S. EPA, Acknowledgement of Notice of Hazardous Waste Activity, EPA Form 8700-12B (4-80), October 9, 1980.
10. Letter from Donna van Veldhuisen, Bureau of Field Operations, New Jersey Department of Environmental Protection and Energy (NJDEPE), to Sandy Foose, USEPA Region II, March 29, 1993.
11. Preliminary Assessment Report, Johns-Manville Sales Corporation, Bridgewater, Somerset County, New Jersey, Hazardous Site Mitigation Agency (HSMA), NJDEPE, September 27, 1984.
12. Project Note: To National Starch and Chemical Corporation file, from Andrew Cilbanoff, Malcolm Pirnie, Inc., Subject: Manifests documenting removal of wastes from site, August 5, 1993.
13. Project Note: To National Starch and Chemical Corporation file, from Andrew Cilbanoff, Malcolm Pirnie, Inc., Subject: Results of File Search for Additional Information Concerning the Waste Disposal Area, August 5, 1993.
14. Malcolm Pirnie, Inc. Interoffice Correspondence from Andrew Cilbanoff to John Rieckhoff (both of Malcolm Pirnie, Inc.), Subject: National Starch and Chemical Site Status, August 5, 1993.

REFERENCE NO. 1

U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTALLATION'S EPA I.D. NO.

NJDD001519230

I. NAME OF INSTALLATION

II. INSTALLATION MAILING ADDRESS

NATIONAL STARCH & CHEMICAL *
10 FINDERNE AVE
BRIDGEWATER, NJ 08807

III. LOCATION OF INSTALLATION

10 FINDERNE AVE
BRIDGEWATER, NJ 08807

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

FOR OFFICIAL USE ONLY

COMMENTS

INSTALLATION'S EPA I.D. NUMBER

APPROVED

DATE RECEIVED
(yr., mo., & day)

F N J D D 0 1 5 1 9 2 3 0

T/A C
3 1

8 0 0 8 1 8

I. NAME OF INSTALLATION

NATIONAL STARCH & CHEMICAL CORP.

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

3 10 FINDERNE AVENUE

CITY OR TOWN

4 BRIDGEWATER,

ST.

ZIP CODE

N J 0 8 8 0 7

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

5 10 FINDERNE AVENUE

CITY OR TOWN

6 BRIDGEWATER

ST.

ZIP CODE

N J 0 8 8 0 7

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

PHONE NUMBER (area code & number)

2 ROBERT W. STRAIN SAFETY ADMIN. 201 685 5024

V. OWNERSHIP

NAME OF INSTALLATION'S LEGAL OWNER

8 NATIONAL STARCH & CHEMICAL CORP.

VI. TYPE OF OWNERSHIP
(enter the appropriate letter into box)

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

F = FEDERAL
M = NON-FEDERAL

A. GENERATION

B. TRANSPORTATION (complete Item VII)

C. TREAT/STORE/DISPOSE

D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

A. AIR

B. RAIL

C. HIGHWAY

D. WATER

E. OTHER (specify)

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA I.D. Number in the space provided below.

X A. FIRST NOTIFICATION

B. SUBSEQUENT NOTIFICATION (complete Item C)

C. INSTALLATION'S EPA I.D. NO.

N J D 0 1 5 1 9 2 3 0

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

5	W	N	I	D	0	0	1	5	1	9	2	3	0	2	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

IX. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
7	8	9	10	11	12
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
19	20	21	22	23	24
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
25	26	27	28	29	30
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
37	38	39	40	41	42
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
43	44	45	46	47	48
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24)

<input checked="" type="checkbox"/> 1. IGNITABLE (D001)	<input checked="" type="checkbox"/> 2. CORROSIVE (D002)	<input type="checkbox"/> 3. REACTIVE (D003)	<input checked="" type="checkbox"/> 4. TOXIC (D004)
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X. CERTIFICATION

I certify, under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE 	NAME & OFFICIAL TITLE (type or print) Vice-President of Manufacturing Adhesives & Resins Divisions	DATE SIGNED 8/15/80
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ap

REFERENCE NO. 2

FORM 1 GENERAL		U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION Consolidated Permits Program (Read the "General Instructions" before starting.)		I. EPA I.D. NUMBER	
LABEL ITEMS				F N J D O O 1 5 1 9 2 3 0 3 D	
I. EPA I.D. NUMBER		PLEASE PLACE LABEL IN THIS SPACE		GENERAL INSTRUCTIONS	
III. FACILITY NAME				If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.	
V. FACILITY MAILING ADDRESS					
VI. FACILITY LOCATION					

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column. If the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X"		SPECIFIC QUESTIONS	MARK "X"	
	YES	NO		YES	NO
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	B. Does or will this facility (either existing or proposed) include or concentrate animal feeding operations or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		F. Do you or will you inject at this facility, into or on municipal effluent below the lowest stratum containing, within one-quarter mile of the well bore, underground sources of drinking water? (FORM 4)	X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production? (FORM 5)	X		H. Do you or will you inject at this facility fluids from oil or gas production or other sources into or on land? (FORM 5)	X	
I. Is this facility a publicly owned treatment works which is subject to the requirements of the Clean Water Act? (FORM 6)	X		J. Is this facility a publicly owned treatment works which is subject to the requirements of the Clean Water Act? (FORM 6)	X	

NAME OF FACILITY

NATIONAL STARCH & CHEMICAL CORPORATION

FACILITY CONTACT

STRAIN, ROBERT W SAFETY ADMIN. 201 585 5024

FACILITY MAILING ADDRESS

10 FINDERNE AVENUE
BRIDGEWATER NJ 08807

FACILITY LOCATION (OTHER SPECIFIC IDENTIFIER)

10 FINDERNE AVENUE
SOMERSET
BRIDGEWATER NJ 08807

CONTINUED FROM THE FRONT

II. SIC CODES (4-digit, in order of priority)

A. FIRST				B. SECOND			
2	8	9	1	(specify)	7	2	8
ADHESIVES-SEALANTS				(specify)	2	8	2
					1	PLASTIC MATERIALS & RESINS	
C. THIRD				D. FOURTH			
2	0	4	6	(specify)	7	2	0
INDUSTRIAL STARCHES				(specify)	4	6	
					FOOD STARCHES		

III. OPERATOR INFORMATION

A. NAME												B. Is the name listed in Item VIII-A also the owner?	
NATIONAL STARCH & CHEMICAL CORP.												<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)												D. PHONE (area code & no.)	
F. FEDERAL				M. PUBLIC (other than federal or state)				P. (specify)				A. 201	
S. STATE				O. OTHER (specify)								685	
P. PRIVATE												5024	
E. STREET OR P.O. BOX													
LO FINDERNE AVENUE													
F. CITY OR TOWN						G. STATE		H. ZIP CODE		IX. INDIAN LAND			
BRIDGEWATER						NJ		08807		Is the facility located on Indian lands?			
										<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)				D. PSD (Air Emissions from Proposed Sources)			
9	N	J	0, 0, 3, 2, 5, 0, 6	9	P		
B. UIC (Underground Injection of Fluids)				E. OTHER (specify)			
9	U			9	E		SEE ATTACHED
C. RCRA (Hazardous Wastes)				F. OTHER (specify)			
9	R			9	F		

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements. F9: A/SI

II. NATURE OF BUSINESS (provide a brief description)

RESEARCH & DEVELOPMENT/ADMINISTRATION FOR ADHESIVES AND SEALANTS, PLASTIC MATERIALS AND RESINS, INDUSTRIAL AND FOOD STARCHES

F9: A/SI

III. CERTIFICATION (see instructions)

I, the undersigned, certify that I have personally examined and am familiar with the information submitted in this application, and that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)		B. SIGNATURE		C. DATE SIGNED	
D. F. Peck - Vice President Mfg. Adhesives & Resins Div.		<i>D. F. Peck</i>		11/10/80	

COMMENTS FOR OFFICIAL USE ONLY

REFERENCE NO. 3

FORM 3		U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program <i>(This information is required under Section 3005 of RCRA.)</i>	I. EPA I.D. NUMBER <div style="border: 1px solid black; padding: 2px; display: flex; justify-content: space-between;"> F N J D O O 1 5 1 9 2 3 0 3 T/A </div>
RCRA			

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED <i>(yr., mo., & day)</i>
	8 0 1 1 1 9

COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (*mark one box only*) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (*place an "X" below and provide the appropriate date*)
☒ **1. EXISTING FACILITY** (*See instructions for definition of "existing" facility. Complete item below.*)

☐ **2. NEW FACILITY** (*Complete item below.*)

C	YR.	MO.	DAY
8	7 5	0 3	0 1

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED
(use the boxes to the left)

YR.	MO.	DAY

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (*place an "X" below and complete Item I above*)
☐ **1. FACILITY HAS INTERIM STATUS**
☐ **2. FACILITY HAS A RCRA PERMIT**
III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (*including its design capacity*) in the space provided on the form (*Item III-C*).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS

Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U

PROCESS	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or inciner- ators. Describe the processes in the space provided; Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III (*shown in line numbers X-1 and X-2 below*): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

5	C DUP T/A C I										
1	2										
3	4										
5	6										
7	8										
9	10										
11	12										
13	14										
15	16										
17	18										
19	20										
21	22										
23	24										
25	26										
27	28										
29	30										
31	32										

I. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE, INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

SAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

EPA Form 3510-3 (6-80)

7. DESCRIPTION OF HAZARDOUS WASTES (continued)

USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

N	J	D	O	0	1	5	1	9	2	3	0	T/A/C
												36

F6: $\frac{A}{55}$ F6: $\frac{A}{56}$

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)

4	0	3	3	2	2	0
65	66	67	68	69	70	71

LONGITUDE (degrees, minutes, & seconds)

0	7	4	3	4	4	3	0
72	73	74	75	76	77	78	79

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

NATIONAL STARCH & CHEMICAL CORPORATION

2. PHONE NO. (area code & no.)

2 0 1 - 6 8 5 - 5 0 2 4

3. STREET OR P.O. BOX

10 FINDERNE AVENUE

4. CITY OR TOWN

BRIDGEWATER

5. ST.

N J

6. ZIP CODE

0 8 8 0 7

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type)

F. Peck - Vice President Mfg.
Adhesives & Resins Div.

B. SIGNATURE



C. DATE SIGNED

11/10/80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

REFERENCE NO. 4

398
RCRA GENERATOR INSPECTION FORM

PERMIT TO DISPOSE
 JUL 17 10 39 AM '81
 ENVIRONMENTAL PROTECTION
 AGENCY INSPECTION
 NEW YORK, N.Y. 10007

COMPANY NAME: National starch + Chem Corp. EPA I.D. NUMBER:

NSD001519230

COMPANY ADDRESS: 10 Funderne Ave.
Bridgewater.

COMPANY CONTACT OR OFFICIAL:

Chuck Eagleton
Bob Strain

TITLE: Manager of Engineering Services
safety coordinator

INSPECTOR'S NAME:

Bob Dante

BRANCH/ORGANIZATION:

NTDEP

CHECK IF FACILITY IS ALSO A TSD

FACILITY

☒

DATE OF INSPECTION:

6/25/81

YES

NO

DON'T
KNOW

(1) Is there reason to believe that the facility has hazardous waste on site? ✓

a. If yes, what leads you to believe it is hazardous waste?
 Check appropriate box:

☒ Company admits that its waste is hazardous during the inspection.

☒ Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.

☐ The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)

☒ The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)

☒ The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)

☒ EPA testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)

☐ Company is unsure but there is reason to believe that waste materials are hazardous. (Explain)

YES NO DON'T
KNOW

- b. Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?

Please explain: *Company knows wastes are not hazardous.*

- c. Identify the hazardous wastes that are on-site, and estimate approximate quantities of each.

Ignitable wastes 0003 + 6755 gal drum
~~Corrosive wastes~~
~~Toxic wastes~~
waste solvents

- d. Describe the activities that result in the generation of hazardous waste. *laboratory operations and testing of other products Adhesives resins and starches.*

- (2) Is hazardous waste stored on site?

- a. What is the longest period that it has been accumulated?

- b. Is the date when drums were placed in storage marked on each drum?

- (3) Has hazardous waste been shipped from this facility since November 19, 1980?

- a. If "yes," approximately how many shipments were made?

- (4) Approximately how many hazardous waste shipments off site have been made since November 19, 1980? *3*

- a. Does it appear from the available information that there is a manifest copy available for each hazardous waste shipment that has been made?

- b. If "no" or "don't know," please elaborate.

	<u>YES</u>	<u>NO</u>	<u>DON'T KNOW</u>
c. Does each manifest (or a representative sample) have the following information?			
- a manifest document number	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- the generator's name, mailing address, telephone number, and EPA identification number	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- the name, and EPA identification number of each transporter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- the name, address and EPA identification number of the designated facility and an alternate facility, if any:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- a description of the wastes (DOT)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- the total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded into or onto the transport vehicle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- a certification that the materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation under regulations of the Department of Transportation and the EPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(5) Were there any hazardous wastes stored on site at the time of the inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. If "yes," do they appear properly packaged (if in containers) or, if in tanks, are the tanks secure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. If not properly packaged or in secure tanks, please explain.			
c. Are containers clearly marked and labelled? <i>not at this time</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Do any containers appear to be leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. If "yes," approximately how many?			

*(6) Has the generator submitted an annual report to EPA covering the previous calendar year? *UA*

a. How do you know?

(7) Has the generator received signed copies (from the TSD facility) of all manifests for wastes shipped off site more than 35 days ago? *✓*

a. If "no," have Exception Reports been submitted to EPA covering these shipments?

(8) General comments.

The facility is clean. There were some rusted drums on site which will be repacked by June 29. The drums were not leaking

* The effective date for this requirement is March 1, 1982.

REFERENCE NO. 5

RCRA TREATMENT, STORAGE AND DISPOSAL FACILITY INSPECTION FORM
FOR TSD FACILITIES ONLY

COMPANY NAME: National Starch & Chem Corp EPA I.D. Number: NSD001519230

COMPANY ADDRESS: 10 Finnerne Ave
Bridgewater

COMPANY CONTACT OR OFFICIAL: Bob Stearn OTHER ENVIRONMENTAL PERMITS HELD

BY FACILITY: ☒ NPDES

☒ AIR

☐ OTHER

TITLE: Spitz Coordinator

INSPECTOR'S NAME:

Bob Dante

DATE OF INSPECTION:

6/27/81

BRANCH/ORGANIZATION:

NSDEP

TIME OF DAY INSPECTION TOOK PLACE:

1100

(1) Is there reason to believe that the facility has hazardous waste on site? yes

a. If yes, what leads you to believe it is hazardous waste?
Check appropriate box:

☒ Company admits that its waste is hazardous during the inspection.

☒ Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.

☐ The waste material is listed in the regulations as a hazardous waste from a nonspecific source (\$261.31)

☒ The waste material is listed in the regulations as a hazardous waste from a specific source. (\$261.32)

☒ The material or product is listed in the regulations as a discarded commercial chemical product (\$261.33)

☒ EPA testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)

☐ Company is unsure but there is reason to believe that waste materials are hazardous. (Explain)

YES NO DON'T KNOW

b. Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?

Please explain: Company knows wastes are hazardous

c. Identify the hazardous wastes that are on-site, estimate approximate quantities of each. Ignitables solvents 67, 55 gallon drums

(2) Does the facility generate hazardous waste? ☒

(3) Does the facility transport hazardous waste? ☒

(4) Does the facility treat, store or dispose of hazardous waste? ☒

PERMIT NO. 10007
JUL 17 10 39 AM '81
ENVIRONMENTAL PROTECTION
AGENCY INSPECTION
NEW YORK, N.Y. 10007

HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL FACILITY INSPECTION FORM
FOR TSD FACILITIES ONLY

VISUAL OBSERVATIONS

- | | YES | NO | DON'T
KNOW |
|---|--|--------------------------|--------------------------|
| (5) <u>SITE SECURITY</u> (§265.14) | | | |
| a. Is there a 24-hour surveillance system? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Is there a suitable barrier which completely surrounds the active portion of the facility? | <i>yes</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| (6) Are there ignitable, reactive or incompatible wastes on site? (§265.27) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| a. If "YES", what are the approximate quantities? | <i>ignitables 67 - 55 gallon drums</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| b. If "YES", have precautions been taken to prevent accidental ignition or reaction of ignitable or reactive waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c. If "YES", explain | <i>stored in secure drums</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| d. In your opinion, are proper precautions taken so that these wastes do not: | | | |
| - generate extreme heat or pressure, fire or explosion, or violent reaction? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - damage the structural integrity of the device or facility containing the waste? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| - threaten human health or the environment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Please explain your answers, and comment if necessary.

- e. Are there any additional precautions which you would recommend to improve hazardous waste handling procedures at the facility? *no*
- (7) Does the facility comply with preparedness and prevention requirements including maintaining: (§265.32)

YES NO DON'T KNOW

- an internal communications or alarm system? ☒ YES ☐ NO ☐ DON'T KNOW
- a telephone or other device to summon emergency assistance from local authorities? ☒ YES ☐ NO ☐ DON'T KNOW
- portable fire equipment? ☒ YES ☐ NO ☐ DON'T KNOW
- adequate aisle space? ☒ YES ☐ NO ☐ DON'T KNOW
- in your opinion, do the types of wastes on site require all of the above procedures, or are some not needed? Explain. ☒ YES ☐ NO ☐ DON'T KNOW
For the types of waste and amount on site no internal alarm system is needed in my opinion.

In your opinion, do the types of wastes on site require all of the above procedures, or are some not needed? Explain. *see above*

- * (8) Have you inspected to verify that the groundwater monitoring wells (if any) mentioned in the facility's groundwater monitoring plan (see no. 19 below) are properly installed? *NA*

If you have, please comment, as appropriate. *NA*

- (9) a. Is there any reason to believe that groundwater contamination already exists from this facility? If "YES", explain. ☒ YES ☐ NO ☐ DON'T KNOW
- b. Do you believe that operation of this facility may affect groundwater quality? ☒ YES ☐ NO ☐ DON'T KNOW
- c. If "YES", explain.

RECORDS INSPECTION

- (10) Has the facility received hazardous waste from an off-site source since Nov. 19, 1980 (effective date of the regulations)? *NA*

- a. If "YES", does it appear that the facility has a copy of a manifest for each hazardous waste load received? *NA*
- b. How many post-November 19 manifests does it have? (If the number is large, you may estimate) *3*
- c. Does each manifest (or a representative sample) have the following information?
- a manifest document number ☒ YES ☐ NO ☐ DON'T KNOW

4. Are ignitable or reactive wastes being placed in surface impoundments without being treated to remove these characteristics?
If "YES", explain.

5. Are there any leaks, failures or is there any deterioration in the impoundments?
If "YES", explain.

6. Give the approximate size of surface impoundments (gallons or cubic feet).

WASTE PILES (\$265.250)

1. Is the waste pile protected from wind erosion?
a. Does it appear to need such protection?
b. Explain what type of protection exists.
2. Does it appear that incompatible wastes are being stored in the same waste pile?
If "YES", explain.
3. Is leachate run-off from a pile a hazardous waste?
If "YES", explain this determination and answer (a) and (b) below.
a. Is the pile placed on an impermeable base that is compatible with the waste?
b. Is the pile protected from precipitation and run-on?
4. In your judgment, are ignitable or reactive wastes managed in such a way that they are protected from any material or conditions which may cause them to ignite?
Please explain or indicate if no such wastes are present.

Are they placed on an existing pile so that they no longer meet the definition of ignitable or reactive waste?
Please explain.

5. How many waste piles are on site, and approximately how large are they?

LAND TREATMENT (\$265.270)

1. Can the facility operator demonstrate that the hazardous waste has been made less or non-hazardous by biological degradation or chemical reactions occurring in or on the soil?
Please explain.

*2. Is run-on diverted away from the active portions of the land treatment facility?

*3. Is run-off collected?

4. Are food chain crops being grown on the facility property?

a. If "YES", can the facility operator document that arsenic, lead and mercury:

- will not be transferred to the crop or ingested by food chain animals or

- will not occur in greater concentrations in the crops grown on the land treatment facility than in the same crops grown on untreated soils.

b. Has notification of the growing of the food chain crops been made to the Regional Administrator?

5. Is there a written and implemented plan for unsaturated zone monitoring?

6. Are there records of the application dates, application rates, quantities and location of each hazardous waste placed in the facility?

7. Do the closure and post-closure plans address:

a. control of migration of hazardous wastes into the groundwater?

b. control of run-off, release of airborne particulate contaminants?

c. compliance with requirements for the growth of food-chain crops (if they are present)?

8. Is ignitable or reactive waste immediately incorporated into the soil so the resulting waste no longer meets that definition? If "YES", explain.

9. Are incompatible wastes placed in the same land treatment area? If "YES", explain.

10. What is the area of the land receiving hazardous waste treatment?

LANDFILLS (\$265.300)

†1. Is run-on diverted away from the active portions of the landfill?

†2. Is run-off from active portions of the landfill collected?

* Effective date for these requirements is May 19, 1981.

† These requirements are effective November 19, 1981.

3. Is waste which is subject to wind dispersal controlled?
Explain. _____
4. Does the owner/operator maintain a map with:
- the exact location and dimensions of each cell _____
 - the contents of each cell and approximate location of each hazardous waste type _____
5. Do the closure and post-closure plans address:
- control of pollutant migration via ground water? _____
 - control of surface water infiltration? _____
 - prevention of erosion? _____
6. Is ignitable or reactive waste treated before being placed in the landfill?
Explain how you know. _____
7. Are precautions taken to insure that incompatible wastes are not placed in the same landfill cell?
If "NO", explain. _____
8. Are bulk or non-containerized wastes containing free liquids placed in the landfill?
If "YES",
- a. Does the landfill have a liner which is chemically and physically resistant to the added liquid? _____
 - b. Is the waste treated and stabilized so that free liquids are no longer present? _____
- *9. Are containers holding liquid waste or waste containing free liquids placed in the landfill? _____
10. Are empty containers (e.g. those containing less than 1/2 inch of liquid) placed in the landfills? _____
- If so, are they crushed flat, shredded or similarly reduced in volume before they are buried? _____
11. What is the approximate area of the hazardous waste landfill? _____

* Effective date for this requirement is November 19, 1981.

INCINERATORS AND THERMAL TREATMENT
(§§265.340 and 265.379)

YES NO DON'T
KNOW

1. What type of incinerator or thermal treatment is at the site (e.g. waterwall incinerator, boiler, fluidized bed, etc.)?

2. Was hazardous waste being incinerated or thermally treated during your inspection?
If "YES", answer all following questions.
If "NO", answer only questions 3 and 7.

3. Has waste analysis been performed (and written records kept) to include:

- heating value of the waste
- halogen content
- sulfur content
- concentration of lead
- concentration of mercury

NOTE: Waste analysis need not be performed on each waste load if if there are documented data available to show waste characteristics that do not vary. If there are such documented data available, check here ☐.

4. Does it appear that the owner/operator brings his thermal treatment process to steady state (normal) conditions of operation before introducing hazardous wastes?

5. Did it appear during your inspection that there was adequate monitoring and inspection by owner/operator every 15 minutes during hazardous waste incineration for:

- waste feed
- auxiliary fuel feed
- air flow
- incinerator temperature
- scrubber flow
- scrubber pH
- relevant level controls

-Every hour for:

- stack plume (color and opacity)

5. Is there open burning of hazardous waste?

a. If "YES", what is being burned?
(only burning or detonation
of explosives is permitted)

b. If open burning or detonation of explosives is taking
place, approximately what is the distance from the open
burning or detonation to the property of others?

YES	NO	DON'T KNOW
-----	----	---------------

6. Does the incinerator appear to be operating
properly? (Do emergency shutdown controls
and system alarms seem to be in good working
order?) Please explain.

a. Is there any evidence of fugitive emissions?

7. Is the residue from the incinerator treated
by the owner as a hazardous waste?
Please explain.

8. What types of air pollution control devices (if any)
are installed on the incinerator?

CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT (\$265.400)

1. Does the treatment process system show any
signs of ruptures, leaks, or corrosion?
Please explain.

2. Is there a means to stop the inflow of
continuously-fed hazardous wastes?

3. Is there ignitable or reactive waste fed
into the treatment system?

If "YES", has it been treated or protected
from any material or conditions which may
cause it to ignite or react? If so,
explain how.

Are the incompatible wastes placed in
the same treatment process?
If "YES", explain.

5. Describe the treatment system at this facility.

YES NO NO

- the generator's name, mailing address, telephone number, and EPA identification number ☒ ☐ ☐
 - the name, and EPA identification number of each transporter ☒ ☐ ☐
 - the name, address and EPA identification number of the designated facility and an alternate facility, if any; ☒ ☐ ☐
 - a DOT description of the wastes ☒ ☐ ☐
 - the total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded into or onto the transport vehicle ☒ ☐ ☐
 - a certification that the materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation under regulations of the Department of Transportation and the EPA ☒ ☐ ☐
- d. Are there any indications that unmanifested hazardous wastes have been received since November 19, 1980? If YES, explain. NA ☐ ☐

(11) Does the facility have a written waste analysis plan specifying test methods, sampling methods and sampling frequency? (\$265.13) ☒ ☐ ☐

- a. Does the character of wastes handled at the facility change from day to day, week to week, etc., thus requiring frequent testing?
(You may check more than one)
Waste characteristics vary ☐
All wastes are basically the same ☒
Company treats all waste as hazardous ☐
Don't Know ☐

b. Does hazardous waste come to this facility from off-site sources? ☒ ☐ ☐

c. If waste comes from an off-site source, are there procedures in the plan to insure that wastes received conform to the accompanying manifest? NA ☐ ☐

(12) INSPECTIONS (\$265.15) *National Starch is making plans to change there classification to just a Generator which they are.*

- a. Does the facility have a written inspection schedule? ☒ ☐ ☐
- b. Does the schedule identify the types of problems to be looked for and the frequency for inspections? ☒ ☐ ☐
- c. Does the owner/operator record inspections in a log? ☒ ☐ ☐
- d. Is there evidence that problems reported in the inspection log have not been remedied? If "YES," please explain. ☒ ☐ ☐

(13) PERSONNEL TRAINING (\$265.16)

a. Is there written documentation of the following:

- job title for each position at the facility related to hazardous waste management and the name of the employee filling each job? ☒
- type and amount of training to be given to personnel in jobs related to hazardous waste management? ☒
- actual training or experience received by personnel? ☒

(14) Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosion or any unplanned release of hazardous waste? ☒
(\$265.51)

- a. Does the plan describe arrangements made with local authorities? ☒
- b. Has the contingency plan been submitted to local authorities? ☒
How do you know? *The company admitted it was*

- c. Does the plan list names, addresses, and phone numbers of Emergency Coordinators? ☒
- d. Does the plan have a list of what emergency equipment is available? ☒
- e. Is there a provision for evacuating facility personnel? ☒
- f. Was an Emergency Coordinator present or on call at the time of the inspection? ☒

(15) Does the owner/operator keep a written operating record with: (\$265.73)

- a description of wastes received with methods and dates of treatment, storage or disposal? ☒
- location and quantity of each waste? ☒
- detailed records and results of waste analysis and treatability tests performed on wastes coming into the facility? *NA*
- detailed operating summary reports and description of all emergency incidents that required the implementation of the facility contingency plan? *NA*

*(16) Does the facility have written closure and post-closure plans? (\$265.110) ☒

a. Does the written closure plan include:

- a description of how and when the facility will be partially (if applicable) and ultimately closed? ☒

- an estimate of the maximum inventory of wastes in storage or treatment at any time during the life of the facility? ☒
- a description of the steps necessary to decontaminate facility equipment during closure? ☒
- a schedule for final closure including the anticipated date when wastes will no longer be received and when final closure will be completed? ☒
- b. What is the anticipated date for final closure? ☒
- 1c. Does the owner/operator have a written post-closure plan identifying the activities which will be carried on after closure and the frequency of these activities? ☒
- d. Does the written post-closure plan include:
 - a description of planned groundwater monitoring activities and their frequencies during post-closure? ☒
 - a description of planned maintenance activities and frequencies to ensure integrity of final cover during post-closure? ☒
 - the name, address and phone number of a person or office to contact during post-closure? ☒
- *(17) Does the owner/operator have a written estimate of the cost of closing the facility? (\$265.142) What is it? ☒
- *(18) Does the owner/operator have a written estimate of the cost for post-closure monitoring and maintenance? What is it? (\$265.144) ☒
- National starch again is planning to change its classification.*
- *(19) Has a groundwater monitoring plan been submitted to the Regional Administrator for facilities containing a surface impoundment, landfill or land treatment process? (This requirement does not apply to recycling facilities.) (\$265.90) ☒ NA
- a. Does the plan indicate that at least one monitoring well has been installed hydraulically upgradient from the limit of the waste management area? ☒ NA
- b. Does the plan indicate that there are at least three monitoring wells installed hydraulically downgradient at the limit of the waste management area? ☒ NA

† This section applies only to disposal facilities.

* Effective date for this requirement is May 19, 1981.

SITE-SPECIFIC

Please circle all appropriate activities and answer questions on indicated pages for all activities circled. When you submit your report, include only those site-specific pages that you have used.

<u>STORAGE</u>	<u>TREATMENT</u>	<u>DISPOSAL</u>
Waste Pile p. 9	Tank p. 8	Landfill pp. 10-11
Surface Impoundment p. 8	Surface Impoundment pp. 8-9	Land Treatment pp. 9, 10
<u>Container p. 7</u>	Incineration pp. 12-13	Surface Impoundment p. 8
Tank, above ground p. 8	Thermal Treatment pp. 12-13	Other _____
Tank, below ground p. 8	Land Treatment pp. 9-10	
Other _____	Chemical, Physical p. 13 and Biological Treatment (other than in tanks, surface impoundment or land treatment facilities)	YES NO DON'T KNOW
	Other _____	

CONTAINERS (\$265.170)

- Are there any leaking containers?
If "YES", explain. ☒ YES ☐ NO ☐ DON'T KNOW
- Are there any containers which appear in danger of leaking?
If "YES", explain. ☒ YES ☐ NO ☐ DON'T KNOW
- Do wastes appear compatible with container materials? ☒ YES ☐ NO ☐ DON'T KNOW
- Are all containers closed except those in use? ☒ YES ☐ NO ☐ DON'T KNOW
- Do containers appear to be opened, handled or stored in a manner which may rupture the containers or cause them to leak? ☒ YES ☐ NO ☐ DON'T KNOW
- How often does the plant manager claim to inspect container storage areas? *daily*
- Does it appear that incompatible wastes are being stored in close proximity to one another?
If "YES", explain. ☒ YES ☐ NO ☐ DON'T KNOW
- Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility's property line? ☒ YES ☐ NO ☐ DON'T KNOW
- What is the approximate number and size of containers with hazardous wastes? *87, 55 gallon drums*

- | TANKS (\$265.190) | YES | NO | DON'T
KNOW |
|---|-----|----|---------------|
| 1. Are there any leaking tanks?
If "YES", explain. | — | — | — |
| 2. Are there any tanks which appear in danger of
leaking.
If "YES", explain. | — | — | — |
| 3. Are wastes or treatment reagents being
placed in tanks which could cause them to
rupture, leak, corrode or otherwise fail?
If "YES", explain. | — | — | — |
| 4. Do uncovered tanks have at least 2 feet
of freeboard or an adequate containment
structure? | — | — | — |
| 5. Where hazardous waste is continuously
fed into a tank, is the tank equipped with
a means to stop this inflow? | — | — | — |
| 6. Does it appear that incompatible wastes
are being stored in close proximity to one
another, or in the same tank?
If "YES", explain. | — | — | — |
| 7. How often does the plant manager claim to
inspect container storage areas? | — | — | — |
| 8. Are ignitable or reactive wastes stored in
a manner which protects them from a source
of ignition or reaction?
If "YES", explain. | — | — | — |
| 9. What is the approximate number and size of
tanks containing hazardous wastes? | — | — | — |

SURFACE IMPOUNDMENTS (\$265.220)

- | | | | |
|--|---|---|---|
| 1. Is there at least 2 feet of freeboard
in the impoundment? | — | — | — |
| 2. Do all earthen dikes have a protective
cover to preserve their structural integrity?
If "YES", specify type of covering. | — | — | — |
| 3. Is there reason to believe that incompatible
wastes are being placed in the same surface
impoundment?
If "YES", explain. | — | — | — |

REFERENCE NO. 6

National

STARCH AND CHEMICAL CORPORATION

FINDERNE AVE. ♦ BRIDGEWATER, N.J. ♦ 201-685-5000 ALL MAIL TO BOX 6500, BRIDGEWATER, N.J. 08807

WRITER'S DIRECT DIAL NUMBER:

CABLE ADDRESS • NASPROD, BRIDGEWATERNEWJERSEY
TWX • 710-480-9240

June 28, 1982

I.D. # NJD001519230

E.P.A. Region II
26 Federal Plaza
New York, N.Y. 10007

Dear Gentlemen:

This letter serves as a formal request to remove National Starch and Chemical's Bridgewater location as a licensed hazardous waste storage site. We will maintain our generator status but are dropping the interim storage filing since the original filing was precautionary and is no longer applicable. The amended 40 CFR Part 262.34 (1/11/82) which could allow an extension to the 90 day accumulation on a case-by-case basis had provided for the potential problems we anticipated. We are therefore, following the 40 CFR 1/11/82 recommendation "generator are encouraged to withdraw protective filings by contacting their EPA Regional Offices". Any hazardous waste generated at our site will be disposed of within the regular 90 day generator provisions.

Sincerely,
Robert W. Strain
Robert W. Strain

RECEIVED
NEW YORK, N.Y. 10007

PAID
JUL 2 1982

*Delete
TSD
Category*

*Delete
119, 1103, 1105
date*

*JH
HWDMS
9/21/82*

REFERENCE NO. 7



Joel Columbus
Debate

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT

32 E. Hanover St., CN 027, Trenton, N.J. 08625

JACK STANTON
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

March 11, 1983

Robert W. Strain
Safety Administrator
National Starch & Chemical Corporation
Box 6500
Bridgewater, NJ 08807

RE: Facility Operating Status

Dear Sir:

GH
HWN
5/24/83

The Bureau of Hazardous Waste Engineering has reviewed your company's response to the Notice of Violation, Failure to Submit Annual Report. The Bureau finds that the response contains adequate information to determine the operating status of this facility with respect to N.J.A.C. 7:26-1 et seq., the New Jersey Hazardous Waste Management Regulations. The Bureau has determined that the company's hazardous waste treatment, storage or disposal facility as delineated in the company's RCRA Part A application and identified by the following EPA ID Number:

EPA ID NO. NJD001519230

has been excluded from regulations under N.J.A.C. 7:26-1.1 et seq. because your facility accumulates hazardous waste on-site for less than 90 days. This exclusion classifies your facility solely as a generator provided the following conditions are complied with:

1. All such waste is, within 90 days or less, shipped off-site to an authorized facility or placed in an on-site authorized facility, as defined at N.J.A.C. 7:26-1.4.
2. The waste is placed in containers which meet the standards of N.J.A.C. 7:26-7.2 and are managed in accordance with N.J.A.C. 7:26-9.4(d).
3. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.
4. The generator complies with the requirements for owners and operators of N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans and emergency procedures as well as N.J.A.C. 7:26-9.4(g) concerning personnel training.

New Jersey Is An Equal Opportunity Employer

PAF
11 12 AM '83
NEW YORK, N.Y. 10001

5. For bulk accumulation of dry hazardous waste materials, the waste pile is managed according to the following:

- (i) The waste pile is no larger than 200 cubic yards; and
- (ii) The pile shall be placed on an impermeable base that is compatible with the waste; and
- (iii) Run-on shall be diverted away from the pile; and
- (iv) Any leachate and run-off from the pile must be collected and managed as a hazardous waste.

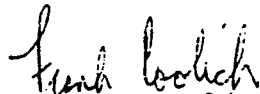
This written acknowledgement of the exclusion of the above identified facility from N.J.A.C. 7:26-1 et seq. is based expressly on the review of the aforementioned correspondence. This letter makes no claim as to the extent and physical condition of the actual hazardous waste activities occurring at the site mentioned above.

Your company's hazardous waste facility above is no longer included in DEP's list of "existing facilities" (see N.J.A.C. 7:26-1.4 and 12.3) and therefore does not need to conform with the interim operating requirements of N.J.A.C. 7:26-1 et seq. for "existing facilities" which would include the TSD facility annual report. It is the company's responsibility to operate within the conditions listed above. To operate a hazardous waste facility without prior approval from the DEP is a violation of the Solid Waste Management Act N.J.S.A. 13:1E-1 et seq.

As a result of the conclusions previously made, the Notice of Violation entitled "Failure to Submit Annual Report" signed by Mr. David Shotwell is rescinded and need not be complied with.

If you have any questions on this matter, please call my office at (609) 292-9880.

Very truly yours,



Frank Coolick, Chief
Bureau of Hazardous Waste Engineering

FC:jb

cc Dave Shotwell
NJDEP, Division of Waste Management

Tom Taccone
USEPA, Region II

REFERENCE NO. 8

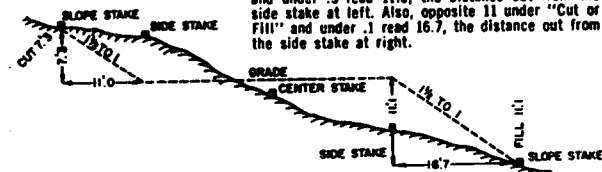
K-Σ
CROSS SECTION BOOK
82 0056

National Starch and
Chemical Corp.
Job# 8003053503
Bridgewater, NJ

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

National Starch & Chemical Corp.
Bridgewater, NJ

Job # 8003-053 503

Site Manager

Andrew Clibanoff



The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

KEUFFEL & ESSER CO.

7/31/92

AC

Michael Chiswick
7/31/92

National Starch and Chemical Company

ROBERT W. STRAIN
Manager, Bridgewater Site
Safety and Security

10 Findeme Avenue, Bridgewater, NJ 08807
908-685-5024 5000
908-707-3763 (Fax)

National Starch and Chemical Company

RONALD BURSTEIN, P.E., CHMM
Certified Diplomat - MAEE
Environmental Affairs Manager
Safety and Environmental Affairs

Findeme Avenue, Bridgewater, NJ 08807
908-685-5162
908-707-3763 (Fax)

National Starch and Chemical Company

ROGER F. GARY
Compliance Supervisor
Bridgewater Site Safety & Security

10 Findeme Avenue, Bridgewater, NJ 08807
908-685-5074
908-707-3763 (Fax)

National Starch and Chemical Company

WAYNE W. WINSMANN
Compliance Supervisor
Engineering Services

Findeme Avenue, Bridgewater, NJ 08807
908-685-5465

Andrew C. Banoff
7/31/92

AC

Andrew C. Banoff
7/31/92

Andrew Ellsworth
7/31/92

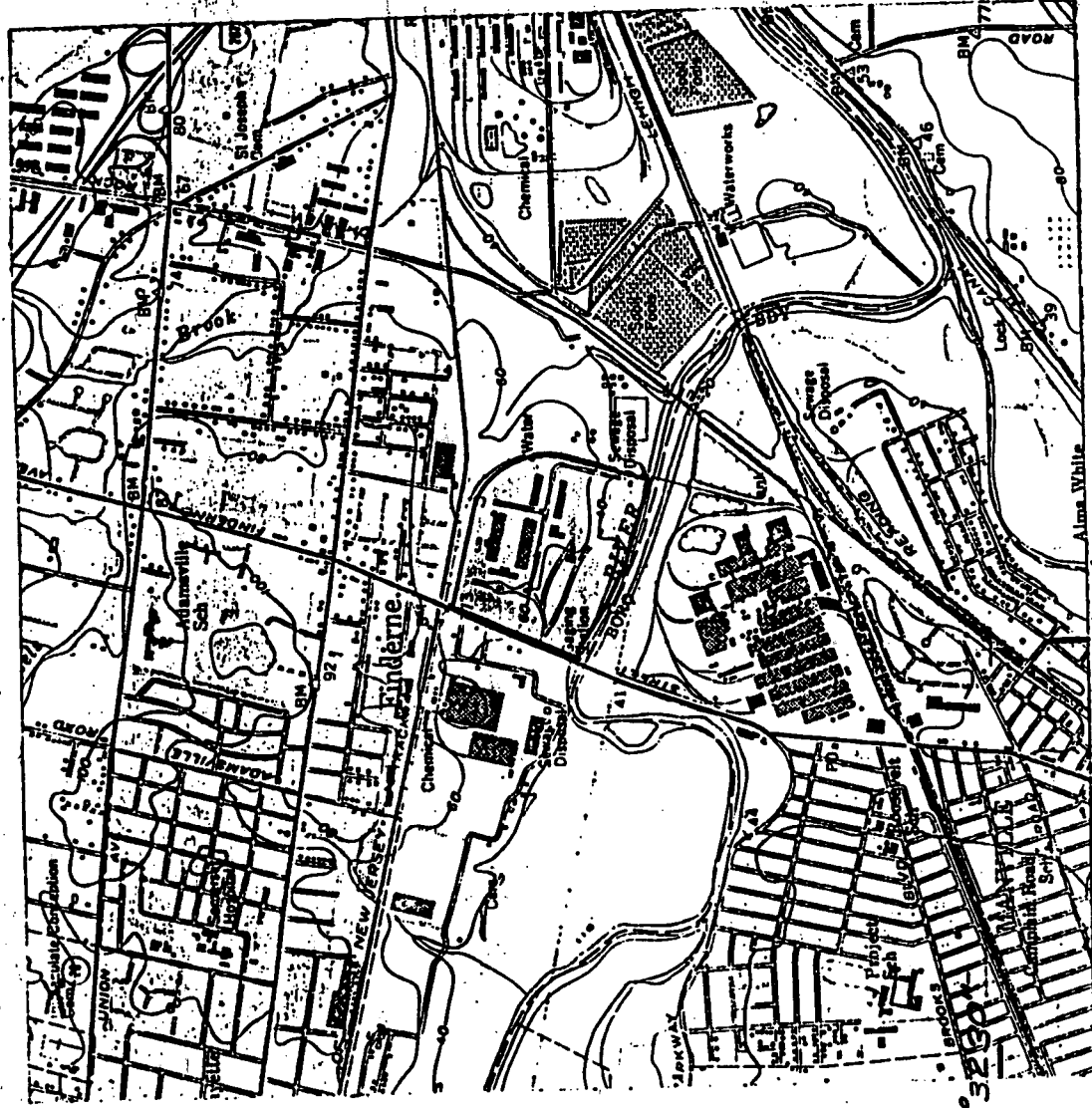
Andrew Ellsworth
7/31/92

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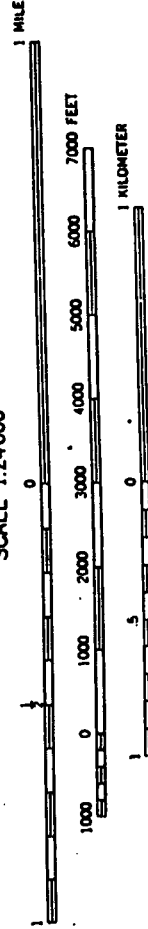
I. Site Location Map	Page 1
II. Site Map	3
III. Photograph Location Map	5

Andrew Ellsworth
7/31/92

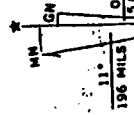
NJD001519230 NATIONAL STARCH & CHEMICAL



SCALE 1:24000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



UTM GRID AND 1970 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

PROPERTY PLAN
BRIDGEWATER SITE

BOUND BROOK, N. J.

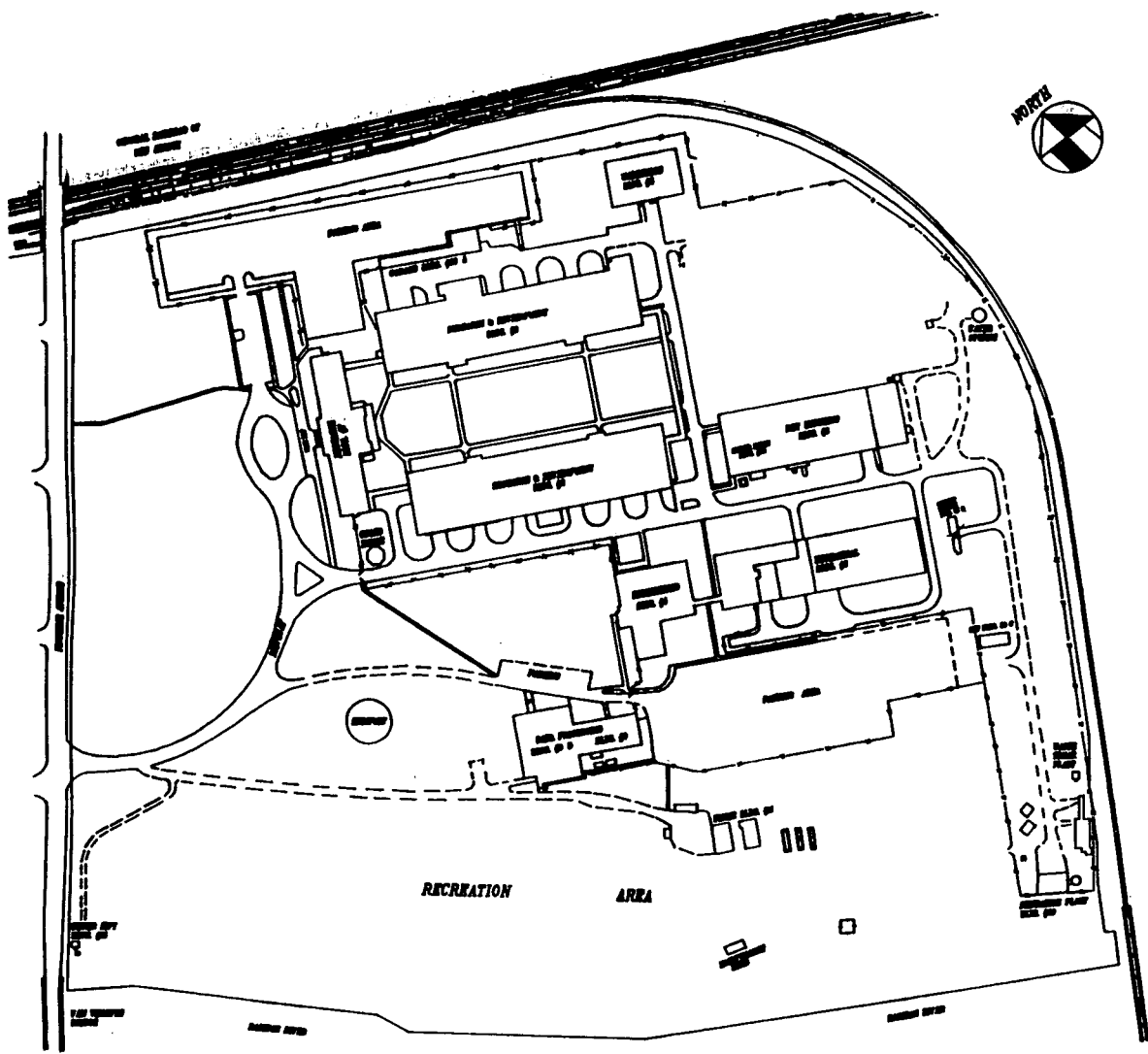
CK-1081

Andrew C. Blum
7/31/92

Andrew C. Blum
7/31/92

③
Richard C. Blumhoff
7/31/92

Richard C. Blumhoff
7/31/92



Site Map

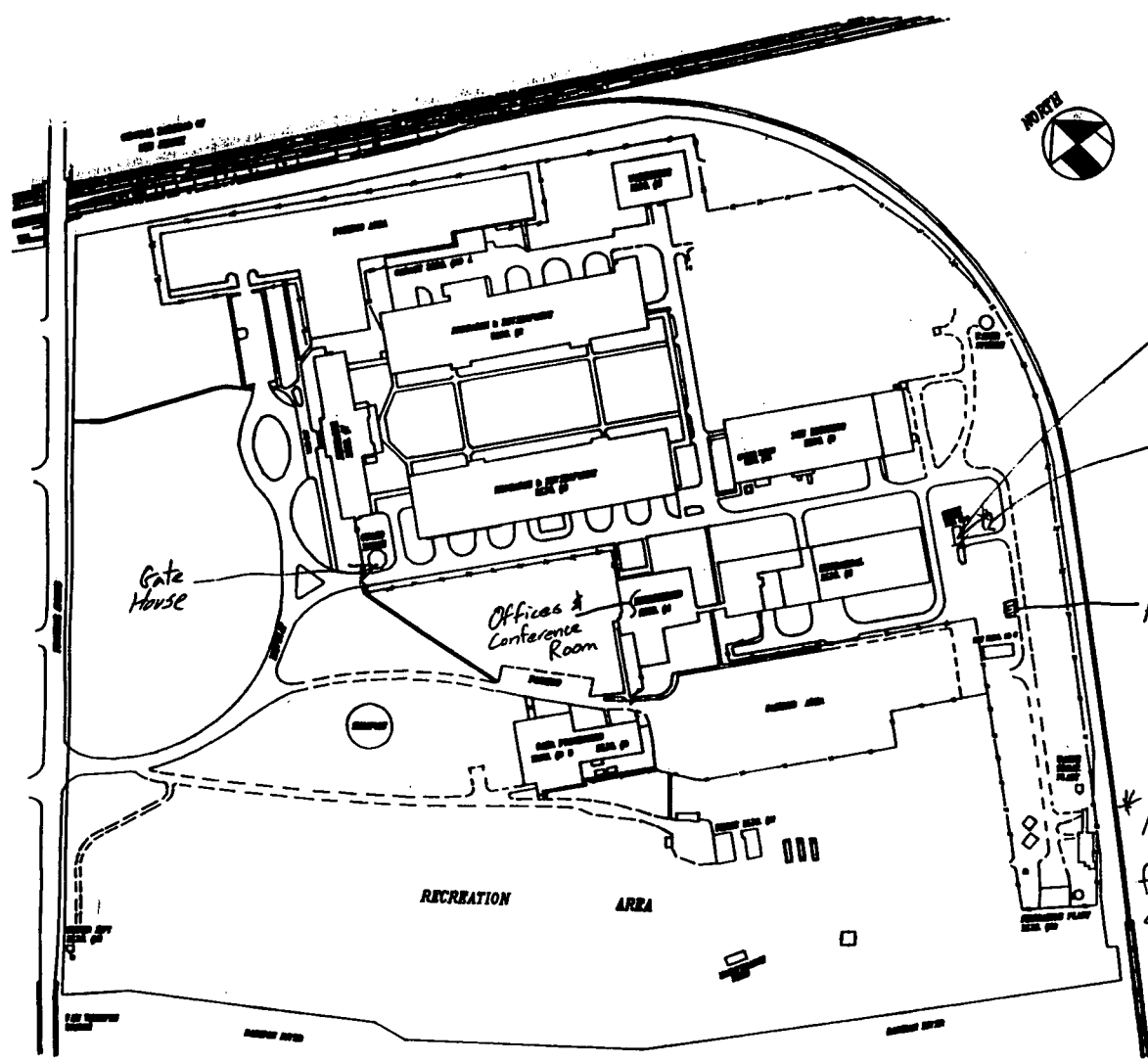
Richard C. Blumhoff
7/31/92

REVISIONS	NATIONAL STARCH AND CHEMICAL CORPORATION PO BOX 10000, MINNEAPOLIS, MN 55408	DATE

Richard C. Blumhoff
7/31/92

⑤
Andrew Ellsberg
 7/31/92

⑥
Andrew Ellsberg
 7/31/92



Shed used for Solvent Storage. Solvents used in laboratory. Lab wastes shipped for incineration every month since 1984.

Former Drum Storage Area. Currently 2 dumpsters are located here containing recyclable metals & wood.

Approximate Drain Location. former drum storage area is upgradient from this stormwater drain.

* All photos taken in former drum storage area.

Andrew Ellsberg
 7/31/92

Andrew Ellsberg
 7/31/92

REVISION	NATIONAL STARCH AND CHEMICAL CORPORATION FARMING AVENUE, DORCHESTER, MA 01928	DATE

⑦

Andrew Ells
7/31/02

9:55 Arrived on-site - checked in at gatehouse

Malcolm Pirnie Personnel

Andrew Ells - Site Manager

Allan Greenlaw - Health & Safety Officer
Weather: Overcast, 75°F, light breeze

Awaiting arrival of Robert Strain - Safety & Security Manager

9:58 Mr. Strain arrives. We followed Mr. Strain to the drum storage area.
Allan Greenlaw conducts brief safety meeting

10:00 Arrived at former drum storage area.
Drums are no longer stored at this site.

Photos 1, 2, 3, 4, 5 Views of former storage areas. Containers ^(Drumstons) present are for storing recyclable metal & wood

Photo #6 View of sign posted on shed along western boundary of storage area. Solvents for lab are stored in this shed.

General area around storage area was clean. No signs of stains or stressed vegetation were evident.

Andrew Ells
7/31/02

Andrew Ells
7/31/02

10:10 Noticed storm drain located \approx 25 yards south of storage area along roadway.
Roadway sloped toward the south at roughly a 7-10% slope.

10:12 Left storage area. Followed Mr. Strain to his office

10:15 Arrived at Mr. Strain's office.

10:17 Met with: Mr. Strain

Ronald Burstein - Env. Affairs Manager

Roger Gory - Compliance Supervisor

Wayne Winsmann - Compliance Supervisor

Informed meeting participants of our purpose on-site. Mr. Strain supplied a site map of the facility.

Drums were stored at the storage area until 1984. Each stored drum was self contained. Since 1984, any generated hazardous waste is kept in a room near the laboratory. Every month, these lab wastes are removed from the site and incinerated off-site.

Andrew Ells
7/31/02

10:30 Gave Mr. Strain a copy of
NDEP delisting letter dated 3/11/83.

10:35 Left Site

Richard L. Blumhoff
7/3/82

REFERENCE NO. 9



**ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)**

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER

7JD001519230

INSTALLATION ADDRESS

NATIONAL STARCH & CHEMICAL CORP.

10 PINDERNE AVENUE

BRIDGEWATER,

NJ

08807

10 PINDERNE AVENUE

BRIDGEWATER

NJ

08807

REFERENCE NO. 10



State of New Jersey
Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
CN 028
Trenton, NJ 08625-0028

Scott A. Weiner
Commissioner

Karl J. Delaney
Director

March 29, 1993

Ms. Sandy Foose
Environmental Services Division
U.S. Environmental Protection Agency
Region II
Edison, New Jersey 08837

Dear Sandy:

We recently received an Environmental Priorities Initiative - Preliminary Assessment (PA) for the National Starch and Chemical Corporation Facility (EPA ID No. NJD001519230) located at 10 Finderne Avenue, Bridgewater, Somerset County, New Jersey. Upon reviewing this PA it came to my attention that this report is seriously deficient as the site was formerly the Johns-Manville Sales and Research Facility (EPA ID No. 980530117). Enclosed is information concerning a former chemical dump area used by Johns-Manville and cleanup activities conducted by National Starch in 1981. The NJDEPE is requesting that this information be reviewed and evaluated when considering the need for further action at this site.

If you have any questions concerning this matter, please do not hesitate to call me at (609) 584-4280.

Very truly yours,

A handwritten signature in cursive script that reads "Donna J. van Veldhuisen".

Donna J. van Veldhuisen
Bureau of Field Operations
Site Assessment Section

enclosure

REFERENCE NO. 11



Preliminary Assessment

Johns-Manville Sales Corporation
Finderne Avenue
Bridgewater/Somerset County
New Jersey

Johns-Manville Sales Corporation
Bridgewater Twp./Somerset County
New Jersey

The Johns-Manville Sales Corp. (J-M) once operated a research facility on property which is presently owned by the National Starch Corp. in Bridgewater Twp., Somerset County. This research facility was used by J-M from 1950 to 1970. In 1970, National Starch purchased the property.

During operation of this property, by J-M, a waste pit was utilized for disposal of asbestos and chemical wastes from the research laboratories. In May 1981, National Starch excavated and emptied the landfill and had the wastes transported to proper disposal areas off site via the State manifest system.

During a follow-up inspection in July 1981, NJDEP officials found the area to be secure. A low priority rating is given this site.

Submitted by: Anne De Cicco
Environmental Specialist
NJDEP-HSMA
RCRA 3012 Project



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. SITE NAME AND LOCATION

01 SITE NAME (Name, location, or description of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Johns-Manville Sales Corporation		Finderne Avenue			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST.
Bridgewater Twp.	NJ	08873	Somerset		
09 COORDINATES LATITUDE 40° 33' 22"		LONGITUDE 74° 39' 40"		Block 6101 Lot 1	

10 DIRECTIONS TO SITE (Starting from nearest public road)
Take 287 N to the Canal Road exit (also labelled Manville) Follow Canal Rd. into Manville, at light take a R on Main Street and proceed to north side of town, ... pass Johns-Manville, the site of concern is on the National

III. RESPONSIBLE PARTIES

Starch property (next) on the right side of road.

01 OWNER (if owner)		02 STREET (Business, mailing, residential)			
National Starch		Finderne Avenue			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
Bridgewater	NJ	08873	201 685-5024		
07 OPERATOR (if owner and operator with owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
			()		
13 TYPE OF OWNERSHIP (Check one)					
<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL					
<input type="checkbox"/> F. OTHER: _____ <input type="checkbox"/> G. UNKNOWN					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

A. RCRA 3001 DATE RECEIVED: _____ B. UNCONTROLLED WASTE SITE (RCRA 103 a) DATE RECEIVED: 6, 12, 81 C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION		02 BY (Check all that apply)			
<input checked="" type="checkbox"/> YES DATE 7, 28, 81	<input type="checkbox"/> NO	<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR			
		<input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____			
Attachment B		CONTRACTOR NAME(S): _____			

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
<input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN	1950 1970
	BE BEGINNING YEAR ENDING YEAR

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Asbestos fibers, soil and clay contaminated with research laboratory chemicals, (benzene, nitric acid, etc.)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

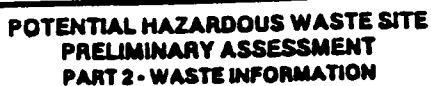
Possible groundwater and soil contamination due to past use of a chemical waste landfill. NOTE: In 1981 landfill was emptied and the wastes were transported to offsite disposal via manifest system.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Activities)			
<input type="checkbox"/> A. HIGH	<input type="checkbox"/> B. MEDIUM	<input checked="" type="checkbox"/> C. LOW	<input type="checkbox"/> D. NONE
(Inspection required promptly) (Inspection required) (Inspect on next available date) (No further action needed. Complete current disposition form)			

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Robert Kunze	NJDEP-HSMA	609 292-9746
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION
Anne De Cicco	HSMA	NJDEP
	07 TELEPHONE NUMBER	08 DATE
	609 292-1210	9, 27, 84
		MONTH DAY YEAR



01 STATE	02 SITE NUMBER
----------	----------------

01 STATE

02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

☒ A. SOLID
☒ B. POWDER, FINES
☐ C. SLUDGE

☐ E. SLURRY
☒ F. LIQUID
☐ G. GAS

☐ D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE

(Measures of whole distribution
and of subgroups)

TONS

CUBIC YARDS

NO. OF DRUGS

03 WASTE CHARACTERISTICS (CAUSE OF THE PROBLEM)

☐ A TOXIC
☐ B. CORROSIVE
☐ C. RADIOACTIVE
☐ D. PERSISTENT

L E SOLUBLE
F. INFECTIOUS
G. FLAMMABLE
H. IGNITABLE

☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☒ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

III. WASTE TYPE

III. WASTE TYPE			
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE
SLU	SLUDGE		
OLW	OLY WASTE		
SOL	SOLVENTS X		
PSD	PESTICIDES		
OCC	OTHER ORGANIC CHEMICALS		
IOC	INORGANIC CHEMICALS		
ACD	ACIDS X		
BAS	BASES X		
MES	HEAVY METALS		

NOTE: Asbestos and research lab wastes were dumped in a waste pit during operation of the Johns-Manville former research facility- which is presently owned by National Starch. In 1981 National Starch

IV. HAZARDOUS SUBSTANCES (See Appendix for Hazard Frequency and CAS Numbers)

(Continued on Attached Sheet)

[illegible]

V. FEEDSTOCKS (See Appendix for CAS Numbers)

V. FEEDSTOCKS (Use Appendix for CAS Number)					
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state law, foreign embassy reports)

VI. SOURCES OF INFORMATION (Use space provided: If not, attach separate sheet.)

NJDEP-DWM, HSMA files on National Starch-1911 Princeton Ave., Trenton, NJ
US E.P.A., Region II, CERCLA Section 103 (c) form
NJDEP-DWR, Enforcement files

III. Waste Type, 03 Comments (Continued)

cleaned the pit out and disposed of the wastes in accordance with the manifest system.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Possible groundwater contamination due to the disposal of research laboratory wastes in an unauthorized waste pit for approx. 20 years.
Attachment A

01 ☐ B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 21
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
The potential for residual soil contamination, in the vicinity of (beneath and bordering) the old waste pit, exists (The waste pit was excavated and contents removed via the manifest system in 1981) Attachments B and B₁

01 ☐ G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ H WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Solid, liquid, sludge, slurry, or gas)

02 ☒ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

In the past, asbestos and chemical wastes from a former Johns-Manville research facility were dumped in a waste pit onsite.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

In May 1981, National Starch excavated & emptied the waste pit formerly used by the J-M research facility, during the period of 1950-1970. The wastes were removed via the manifest system under the direction of the

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analyses, reports)

EPA FORM 2070-12 (7-81) Bureau of Hazardous Waste. An inspection of this area by representatives of the State, Div. of Water Resources, in July 1981 revealed that this area appeared to be secure; National Starch was found to be operating their facility in an environmentally sound fashion. Based on this information a low priority is given this site.

Files

Joseph M. Mikulka
Joseph M. Mikulka, Chief, Region IV

National Starch, Bridgewater Township

AUG 7 1981

On July 28, 1981, I met with Mr. Charles Eagleton and Mr. Robert Strein of National Starch, concerning the organic contamination of their potable water wells.

I advised these gentlemen that the Division had two major concerns at this time:

- 1) That the wells were not being used for potable purposes.
- 2) That none of the operations on National Starch's property were contributing to this ground water pollution.

Mr. Eagleton advised me that they had ceased use of their wells for potable purposes, and were utilizing public water supply (Elizabethtown Water Company). He further advised that all sanitary sewage on site was directed to the Borough of Manville for treatment, and that all industrial wastewaters were directed to the Somerset-Raritan Valley Sewerage Authority for treatment. Both of these gentlemen then took me on a tour of the plant grounds.

Following are items of interest which I noted during our inspection:

- 1) The large main building is comprised of administrative offices and two research wings; all wastewaters are handled as discussed in the preceding paragraph.
- 2) Several other buildings are utilized as warehouses; there are no industrial wastewaters generated at these locations; sanitary wastewaters are handled as described in the preceding paragraph.
- 3) There is one medium sized building utilized for processing various glues and resins. The sanitary needs of the building are served by one bathroom, containing a sink and toilet, from which flows are directed into a septic system. All other water used within the building is directed to a concrete neutralization pit outside the building, and thence to the Somerset-Raritan Valley Sewerage Authority. The integrity of this pretreatment pit did not appear to be suspect.
- 4) One outside chemical storage area is maintained onsite, towards the rear of the property. There were only a few drums being stored at the time of my inspection (awaiting removal via the manifest system) and there was no evidence of past spillages. General housekeeping at the entire facility appeared to be excellent.

- 5) When National Starch acquired this property from Johns Manville, they were advised of the existence of a chemical waste dump which was established in 1954 by Johns Manville. In the spring of this year, National Starch voluntarily decided to locate, excavate, and dispose of the materials in that dump.

I was shown photographs and documents regarding these actions. The waste materials were disposed of in a remarkably secure fashion, which has apparently withstood the test of time. Containers of the waste materials were packed with dirt in cement pipes which were then carefully buried in a clay lined pit, stabilized with suitable fill, and covered with an impervious top. National Starch reports that all containers were intact upon excavation and there was no evidence of soil contamination. These materials were removed via the manifest system, under the direction of the Bureau of Hazardous Waste, and National Starch has agreed to send me copies of the pertinent documentation.

In conclusion, my inspection did not indicate any obvious sources currently existing on National Starch's property, and the firm's operations on this site appear to be conducted in an environmentally conscious and secure fashion.

E34:01

cc: Gregory Cunningham, Enforcement Unit, Region IV
William Althoff, Bureau of Ground Water Management
Robert Tucker, Office of Cancer & Toxic Substances
Richard Martini, Bridgewater Township Health Department

REFERENCE NO. 12

To:File	Date:August 5, 1993
From:Andrew Cilbanoff	Project #:8003-053
Subject:Manifests Documenting Site Waste Removals	Site Name:National Starch and Chemical Corporation

Ms. Donna van Veldhuisen of the Site Assessment Section, Bureau of Field Operations, NJDEPE, was able upon request to provide manifests that document the shipment of wastes from National Starch and Chemical Corporation to various Treatment, Storage, and Disposal (TSD) Facilities located in Niagara Falls, NY, Mt. Olive, NJ, and Morris Plains, NJ. The waste materials were shipped in May, 1991 according to the manifests. The manifest copies are of poor quality and it appears that the information may not be complete. However, the manifest copies attached to this project note are of the best quality available.

Chemical content information in the manifests is broken down into waste characteristic categories such as corrosive liquids, alkaline liquids, hazardous waste solids, flammable liquids, etc. No indication of any specific constituent contained in the shipped wastes is noted in the manifests with the exception of nitric acid. The actual quantity of nitric acid removed from the site is unclear.

(CHEMTREC 800-424-9300)

FACILITY
DESTINATION

CELOS INTERNATIONAL
56TH + PINE
NIAGARA FALLS NY
NY DO80336241

C H
A U
R L
E R
C A
R R
I E
R

HORWITH TRUCKING
RD. 1
COOLEY, PA
PA D/O 64035819

D.O.T. PROPER

SHIPPING NAME

HAZARD CLASS

CODE

G

CONTAINER
NUMBERS

PLC

BULK

HAZARDOUS WASTE/CLINICALS
14A-9189..

OKM-E

NOTE EARTH + CLAY (CONTAMINATE WITH
ASBESTOS TRANSITE PIPE (CRUSHED).
EARTH CONTAINS LESS THAN .50% CHLORINATED
BENZENE. CRUSHED GLASS, ETC.

TECH REP. AETC	
5/21/81	
1	

IF ABOVE NAMED MATERIALS ARE PROPERLY
PACKAGED, MARKED AND LABELED AND ARE IN
TRANSPORTATION ACCORDING TO THE
OF THE DEPARTMENT OF TRANSPORTATION.

PLACARDS REQD.

NONE

SHIPMENT DATE

5/21/81

MANIFEST NO. NJ0000561

DISPOSER WORK ORDER

SERVICE ORDER NO.

DUES _____ || _____ EM. RESP. _____ TRUCK USED-VAN _____ 14' _____ 22' _____ 40'

TRUCK-DRIVER _____ JOB SITE - TIME IN _____ TIME OUT _____ DEMUR _____

ANPOWER _____ DISPOSAL SITE - TIME IN _____ TIME OUT _____ DEMUR _____

NAME _____
TECH _____
ASST. _____
TIME IN _____
TIME OUT _____
LUNCH _____
TRAVEL _____

NAME _____ TECH _____ ASST: _____ TIME IN _____ TIME OUT _____ LUNCH _____ TRAVEL _____

NAME _____ TECH _____ ASST. _____ TIME IN _____ TIME OUT _____ LUNCH _____ TRAVEL _____

NAME _____ TECH _____ ASST. _____ TIME IN _____ TIME OUT _____ LUNCH _____ TRAVEL _____

NAME _____ TECH _____ ASST. _____ TIME IN _____ TIME OUT _____ LUNCH _____ TRAVEL _____

MATERIALS USED DRUMS - 17H _____, 6D _____, 17E _____, OTHER _____

VERMICULITE _____, SPEEDY DRY _____, PAILS - TYPE _____ QUANTITY _____

STATE - ZIP CODE: **07001** **BRIDGEWATER NJ**

TRANSPORTER NO. 1: **ENVIRONMENTAL TRANSFER CORP.** PHONE (INCLUDE AREA CODE): **201-539-7164** EPA ID NO.: **NJ.DC.U.P.02938**

ADDRESS (STREET - CITY - STATE - ZIP CODE): **520 SPEEDWELL AVE MORRIS PLAINS NJ**

TRANSPORTER NO. 2: _____ PHONE (INCLUDE AREA CODE): _____ EPA ID NO.: _____

ADDRESS (STREET - CITY - STATE - ZIP CODE): _____

TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY: **ADVANCED ENVIRO. TECH CORP.** PHONE (INCLUDE AREA CODE): **201-347-1909** EPA ID NO.: **NJ.DC.U.P.06313**

SITE ADDRESS (STREET - CITY - STATE - ZIP CODE): **GOLDMINE RD MT OLIVE, NJ**

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE
 THIS FORM IS NO. _____ OF A TOTAL OF _____ THE FIRST MANIFEST DOCUMENT NO. IS **NJ-1**

PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNIT	CONTAINER NO.	TYPE	DATE	TIME	INITIALS
1. CORROSIVE LIQUID NOS.	CORROSIVE MATERIAL	UN 1760	1	---	35	1	---	01	10	1000
2. ALKALINE CORROSIVE LIQUID NOS.	CORROSIVE MATERIAL	UN 1719	1	---	10	1	---	01	10	1000
3. ORGANIC PHOSPHATE MIXTURES LIQUID NOS.	POISON B	NA 2783	1	---	10	1	---	01	10	1000
4. HAZARDOUS WASTE SOLID NOS.	ORM-E	NA 9189	2	---	40	3	---	01	10	1000
5. FLAMMABLE LIQUID NOS.	FLAMMABLE	UN 1993	1	---	1	1	---	01	10	1000
6. NITRIC ACID 70%	OXIDIZER	UN 2031	1	---	1	1	---	01	10	1000

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTE SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the laws. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE: *[Signature]* TITLE: **Gen. Admin.** DATE SHIPPED: **5/21/81** MO. **5** DAY **21** YR. **81**

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT: *[Signature]* TRANSPORTER NO. 1 VEHICLE ID NO.: **NJ.SW.A.S.X.W.A.2.5.J** TEMPORARY

PART B: GENERATOR'S COPY

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT: *[Signature]*

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT: _____

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT: _____

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS: _____

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION: *[Signature]* TITLE: **Rec. Mgr.**

In case of emergency or spill immediately call the National Response Center (800) 424-6802 and the N.J. Dept. of Environmental Protection (609) 292-5560 (Day) (609) 292-7172 (Night)

DOCUMENT NO.: **0020662**

CITY - STATE - ZIP CODE
30
DERNE AVE BRIDGEWATER NJ
TRANSPORTER NO. 1
HREWITZ TRUCKING
PHONE (INCLUDE AREA CODE) 201 263-1050 EPA ID NO. PA D06403581
ADDRESS (STREET - CITY - STATE - ZIP CODE)
RD-1 COPLEY, P.A.
TRANSPORTER NO. 2
PHONE (INCLUDE AREA CODE) EPA ID NO.
ADDRESS (STREET - CITY - STATE - ZIP CODE)

TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY
CECOS INTERNATIONAL
PHONE (INCLUDE AREA CODE) 716-731-3281 EPA ID NO. NY D08033624
SITE ADDRESS (STREET - CITY - STATE - ZIP CODE)
56TH + PINE NIAGARA FALLS N.Y.

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE
THIS FORM IS NO. OF A TOTAL OF THE FIRST MANIFEST DOCUMENT NO. IS NJ

PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS NO.	TYPE	EPA HAZ CODE	EPA WASTE TY
HAZARDOUS WASTE SOLID NON ORM-E	ORM-E	NA 9189	2	350.00	3	-1	07	-	NONE

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

* 07 - DUMP TRAILER
* 1 HAZ. WASTE SOLID: EARTH + CLAY CONTAMINATED WITH ASBEST TRANSITE PIPE (CRUSHED) EARTH CONTAINS LESS THAN 5PPM CHLORINATED B.

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE
TITLE
DATE SHIPPED
EXPECTED ARRIVAL DATE
TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT
TRANSPORTER NO. 1 VEHICLE ID NO.
DATE RECEIVED

TEAR AT THIS SEPARATION LINE

PART B: GENERATOR'S COPY
30290 5/24/81 55-66
GENERATOR EPA ID NO. NJD00151923

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT
TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT
TRANSPORTER NO. 2 VEHICLE ID NO.
TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS
HANDLING METHOD

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION
TITLE
DATE RECEIVED

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.J. Dept. of Environmental Protection (609) 292-5560 (Day) (609) 292-7172 (Night)
DOCUMENT NO. NJ 0000561

5

TE CHEMICAL SHIPPING DOCUMENT

(CHEMTREC 800-424-9300)

FINAL STARCH
EENE AVE
NEWATER, NJ.

DESIGNATION

AETC
520 SPEEDWELL AVE
MORRIS PLAINS NJ
201-539-7111

HAZARD

GROSS WEIGHT	H M	D.O.T. PROPER	SHIPPING NAME	HAZARD CLASS	CODE	QID	CONTAINER NUMBERS	PLC	BULK
1			DAY 31 SUB: CHEMICAL / MEDICAL AREA						
			REMOVAL OF MISC: KEAGENT BOTTLES						
			FROM TRANSITE PIPE + DESTRUCTION						
			OF ABOVE TRANSITE BY CRUSHING WITH FRONT						
			END LOADER. DUMP TRAILER (1) (MITKO) DROPPED						
			OFF AND LOADED WITH DEBRIS (TRANSITE) + DIRT						
			DUMP TRAILER (2) ARRIVED 207 AND						
			WAS LOADED WITH BALANCE OF PIPE + EARTH.						
			Both TRAILERS WILL BE REMOVED 5/21/01 (THURSDAY)						
			THANK YOU 5/18/01						
			ALL MATERIAL LEFT ON SITE!						

CATION

THAT THE ABOVE NAMED MATERIALS ARE PROPERLY
RIBED, PACKAGED, MARKED AND LABELED AND ARE IN
ON FOR TRANSPORTATION ACCORDING TO THE
ATIONS OF THE DEPARTMENT OF TRANSPORTATION.

PLACARDS REQD.

SHIPMENT DATE 5/20/01 MANIFEST NO.

DISPOSER WORK ORDER

SERVICE ORDER NO.

COPYRIGHT © 1979 AETC (MORRIS PLAINS, N.J.)

REV. 1-79

RADIUS I II III TRUCK-DRIVER MANPOWER

TRUCK-DRIVER NAME DL TECH V ASST. TIME IN 830 TIME OUT 1130 LUNCH 1145 TRAVEL 1145

MANPOWER NAME AT TECH ASST. TIME IN 830 TIME OUT 1130 LUNCH 1145 TRAVEL 1145

NAME RWL TECH ASST. TIME IN 830 TIME OUT 1130 LUNCH 1145 TRAVEL 1145

MATERIALS USED DRUMS - 17H, 6D, 17E, OTHER

VERMICULITE, SPEEDY DRY, PAILS - TYPE, QUANTITY

CANS - 2A, BOXES FIBRE - 12A, 12B, BOXES WOOD - 15A

OTHER - TYPE, QUANTITY, TYPE, QUANTITY

MISC. QUANTITY, TYPE, QUANTITY

COMMENTS

TE CHEMICAL SHIPPING DOCUMENT

(CHEMTREC 800-424-9300)

NAL STARCH
ERNE AVE
EWATER NJ.

RECEIVED

CENTRAL AETC
520 SPEEDWELL AVE
MORRIS PLAINS NJ.
201-539-7111

HAULER
CARRIER

GROSS WEIGHT	H M	D.O.T. PROPER	SHIPPING NAME	HAZARD CLASS	CODE	DECA	CONTAINER NUMBERS	PLC	BULK
5545		DAY (2)	HUB: CHEM DISPOSAL AREA - EXTRACTION OF TRANSITE PIPES, REMOVAL OF MISL. REAGENT BOTTLES, AND DESTRUCTION OF ABOVE TRANSITE BY CRUSHING WITH FRONT END LOADER (3) (TRANSITE) REMOVED (9) PIPES CRUSHED - ALL MATERIAL LEFT ON SITE!						

THANK YOU
JAN 1981
5/19/81

ATION
Y THAT THE ABOVE NAMED MATERIALS ARE PROPERLY
BED, PACKAGED, MARKED AND LABELED AND ARE IN
N FOR TRANSPORTATION ACCORDING TO THE
IONS OF THE DEPARTMENT OF TRANSPORTATION.

PLACARDS REQD.

SHIPMENT DATE 5/19/81 MANIFEST NO. _____

DISPOSER WORK ORDER _____

SERVICE ORDER NO. _____

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ADJUS I II III EM. RESP. TRUCK USED - VAN 14' 22' 40'

RUCK-DRIVER _____

ANPOWER _____

AME 2.1 _____

AME A.J. _____

AME _____

AME _____

AME _____

AME _____

AMERALS USED DRUMS - 17H _____, 6D _____, 17E _____, OTHER _____

ERMICULITE _____, SPEEDY DRY _____, PAILS - TYPE _____, QUANTITY _____

ANS - 2A _____, BOXES FIBRE - 12A _____, 12B _____, BOXES WOOD - 15A _____

THER - TYPE _____, QUANTITY _____, TYPE _____, QUANTITY _____

ISC. _____

COMMENTS 1457D - 2 ROLL PLASTIC (20' X 100')
5 ROLL PLASTIC (10' X 30')

C H
A U
R I
E R

THE ABOVE NAMED MATERIALS ARE PROPERLY
PACKAGED, MARKED AND LABELED AND ARE IN
CONFORMANCE WITH THE REQUIREMENTS OF THE
DEPARTMENT OF TRANSPORTATION.

PLACARDS READ. _____
SHIPMENT DATE 11/1/81 MANIFEST NO. _____
DISPOSER WORK ORDER _____
SERVICE ORDER NO. _____

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RADIUS I _____ II _____ III _____ EM. RESP. _____ TRUCK USED - VAN _____ 14' _____ 22' _____ 40' _____

TRUCK-DRIVER _____

MANPOWER _____

NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR
NAME	TECH	ASST.	TIME IN	TIME OUT	DEMUR

MATERIALS USED DRUMS - 17H _____, 6D _____, 17E _____, OTHER _____

VERMICULITE _____, SPEEDY DRY _____, PAILS - TYPE _____ QUANTITY _____

CANS - 2A _____, BOXES FIBRE - 12A _____, 12B _____, BOXES WOOD - 15A _____

OTHER - TYPE _____ QUANTITY _____, TYPE _____ QUANTITY _____

MISC. _____

COMMENTS _____

TE CHEMICAL SHIPPING DOCUMENT

(CHEMTREC 800-424-9300)

FACILITY: A. E. T. C.
 CARRIER: E. T. C.
 ORIGIN: GOLD MINE RD
 DESTINATION: MT. OLIVE NJ
 DATE: 5-21-81
 NJD 080431247 NJT 0000 1241

GROSS WEIGHT	H M	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	CODE	GRP	CONTAINER NUMBERS	PLC	BULK
800lbs	X	CORROSIVE LIQUID NOS.	CORROSIVE MATERIAL	55BN	A		✓	
200lb	X	ALKALINE (CORROSIVE LIQUID NOS.)	CORROSIVE MATERIAL	55BN	F		✓	
200lb	X	ORGANIC ACETATE MIXTURE	POISON B	55BN	F		✓	
		LIQUID NOS.						
100lb	X	NITRIC ACID 70%	OXIDIZER	55BN	E		✓	
400lbs	-	HAZARDOUS WASTE (SOLID NOS.)	ORM-E	55TN	F		✓	
		(DDT, WETTABLE POWDERS)						
300lbs	-	CHEMICALS NOS.	DOT NON REGULATED	55 TN			✓	
5.6bs	X	PHENYLTRICHLOROSILANE	FLAMMABLE LIQUID	G.H.			✓	
		(5x1pt)						
1x10T	X	ORGANIC LUPERSOL-130 PEROXIDE NOS.	ORGANIC PEROXIDE	G.H.			✓	
		LIQUID						
1- 12330		(16) PIECES TOTAL						
2- 2A METAL								

NOTIFICATION

THAT THE ABOVE NAMED MATERIALS ARE PROPERLY
 CRIBED, PACKAGED, MARKED AND LABELED AND ARE IN
 CONFORMANCE WITH THE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

PLACARDS REQD. DANGEROUSSHIPMENT DATE 5/21/81 MANIFEST NO. NJ 0000562

DISPOSER WORK ORDER

SERVICE ORDER NO.

COPYRIGHT 1979 ETC (MORRIS PLAINS, N.J.)

ADJUS	II	III	EM. RESP.	TRUCK USED - VAN	14'	22'	40'
RUCK-DRIVER							
IANPOWER							
NAME	121	TECH V	ASST.	TIME IN	TIME OUT	DEMUR	DEMUR
NAME	121	TECH	ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
NAME	121	TECH	ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
NAME	121	TECH	ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
NAME	121	TECH	ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
NAME	121	TECH	ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
MATERIALS USED	DRUMS - 17H	12	17E				
ERMICULITE	221						
ANS - 2A	2						
OTHER - TYPE							
ISC.							
COMMENTS	10						

(CHEMTREC 800-424-9300)

ARCH	DESTINATIVITY	NET	HAULER
		GOLDENE PL	CARRIER
N.T		MONT OLIVE	
N		(101-147-504)	

CARRIER

[illegible]

DOVE NAMED MATERIALS ARE PROPERLY
EGED, MARKED AND LABELED AND ARE IN
NSPORTATION ACCORDING TO THE
E DEPARTMENT OF TRANSPORTATION

PLACARDS REQD.

SHIPMENT DATE 5/15/81 MANIFEST NO.

DISPOSER WORK ORDER

SI	II	III	EM. RESP.	TRUCK USED-VAN	14'	22'	40'
JOB SITE - TIME IN				TIME OUT		DEMUR	
DISPOSAL SITE - TIME IN				TIME OUT		DEMUR	
TECH	AN	L.	ASST.	TIME IN 5:00	TIME OUT 4:0	LUNCH 2 hr	TRAVEL 1:21
TECH	L.T.C.		ASST.	TIME IN 11	TIME OUT 11	LUNCH 11	TRAVEL 14
TECH			ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
TECH			ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
TECH			ASST.	TIME IN	TIME OUT	LUNCH	TRAVEL
MATERIALS USED				DRUMS - 17H	6D	17E	OTHER
CULITE				SPEEDY DRY	PAILS - TYPE	QUANTITY	
2A				BOXES FIBRE - 12A	12B	BOXES WOOD - 15A	
TYPE				QUANTITY	TYPE	QUANTITY	

ENTS	1-3000	100-1000	1000-10000
------	--------	----------	------------

(CHEMTREC 800-424-9300)

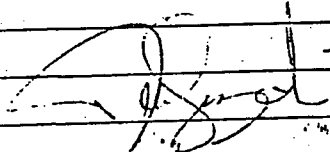
ATARCH
E AVE
ITER, NJ.
519230

FACILITY
DESTINATION

CELOS INTERNATIONAL
56TH + PINE
NIAGARA FALLS NY
NY DO80336241

C H
A R R I E R
A U L E R

HORWITH TRUCKING
RD 1
COOLEY, PA
PA D 064035819

H M	D.O.T. PROPER SHIPPING NAME	HAZARD CLASS	CODE	CONTAINER NUMBERS	PLC	BULK
1-	HAZARDOUS WASTE / CLDNOS NA-9189	ORM-E				✓
<p>NOTE EARTH + CLAY CONTAMINATE WITH ASBESTOS TRANSITE PIPE (CRUSHED). EARTH CONTAINS LESS THAN .5PPM CHLORINATED BENZENE, CRUSHED GLASS, ETC.</p>						
		TECH REP. AETC 5/21/81				

NOTE EARTH + CLAY CONTAMINATE WITH
ASBESTOS TRANSITE PIPE (CRUSHED).
EARTH CONTAINS LESS THAN .5PPM CHLORINATED
BENZENE, CRUSHED GLASS, ETC.

TECH Rpt. AETC	
5/21/81	

AT THE ABOVE NAMED MATERIALS ARE PROPERLY
ED, PACKAGED, MARKED AND LABELED AND ARE IN
FOR TRANSPORTATION ACCORDING TO THE
ONS OF THE DEPARTMENT OF TRANSPORTATION.

PLACARDS READ. NONE
SHIPMENT DATE 5/21/81 MANIFEST NO. NJ0000561
DISPOSER WORK ORDER _____
SERVICE ORDER NO. _____

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RADIUS I	II	III	EM. RESP.	TRUCK USED - VAN	14'	22'	40'
<u>TRUCK DRIVER</u>							
JOB SITE - TIME IN _____				TIME OUT _____	DEMUR _____		
<u>MANPOWER</u>				DISPOSAL SITE - TIME IN _____	TIME OUT _____	DEMUR _____	
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
TECH _____		ASST. _____		TIME IN _____	TIME OUT _____	LUNCH _____	TRAVEL _____
<u>MATERIALS USED DRUMS - 17H _____, 6D _____, 17E _____, OTHER _____</u>							
PERMULITE _____, SPEEDY DRY _____,				PAILS - TYPE _____	QUANTITY _____		
ANS - 2A _____, BOXES FIBRE - 12A _____, 12B _____,				BOXES WOOD - 15A _____			
OTHER - TYPE _____				QUANTITY _____	TYPE _____	QUANTITY _____	TYPE _____

COMMENTS

TRANSPORTER NO. 2
ADDRESS (STREET - CITY - STATE - ZIP CODE)
PHONE (INCLUDE AREA CODE) EPA ID NO.

TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY
CECOS INTERNATIONAL
SITE ADDRESS (STREET - CITY - STATE - ZIP CODE)
56TH + PINE NIAGARA FALLS, N.Y.
PHONE (INCLUDE AREA CODE) EPA ID NO.
716-731-3281 NYD080336241

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE
THIS FORM IS NO. OF A TOTAL OF THE FIRST MANIFEST DOCUMENT NO. IS NJ

PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS NO.	TYPE	EPA HAZ CODE	EPA WASTE 1Y1
*HAZARDOUS WASTE SOLID	ORM-E	NA 9189	2	370.00	3	- - 1	07	-	NONE
2.									
3.									
4.									
5.									
6.									

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED) SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED

* 07 - DUMP TRAILER
* 1. HAZ. WASTE SOLID: EARTH + CLAY CONTAMINATED WITH ASBESTOS TRANS. PIPE (CRUSHED) - EARTH CONTAINS LESS THAN .5ppm CHLORINATED BENZ.

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described above were consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE
TITLE
DATE SHIPPED
EXPECTED ARRIVAL DATE
TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION
TRANSPORTER NO. 1 VEHICLE ID NO.
DATE RECEIVED

PART B: GENERATOR'S COPY
55-Lc 5/21/81 50289
GENERATOR EPA ID NO. NJD00151923

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT
TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT
TRANSPORTER NO. 2 VEHICLE ID NO.
DATE DELIVERED
DATE RECEIVED

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT
DATE DELIVERED

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS
HANDLING METHOD

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION
TITLE
DATE RECEIVED
DOCUMENT NO. NJ 0000563

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.J. Dept. of Environmental Protection (609) 292-5860 (Day) (609) 292-7172 (Night)

BRIDGEWATER NJ

ENVIRONMENTAL TRANSFER CORP.

PHONE (INCLUDE AREA CODE) 201-539-7164

EPA ID NO. NJT00002938

ADDRESS (STREET - CITY - STATE - ZIP CODE)

520 SPEEDWELL AVE MORRIS PLAINS, N.J.

TRANSPORTER NO. 2

PHONE (INCLUDE AREA CODE)

EPA ID NO.

ADDRESS (STREET - CITY - STATE - ZIP CODE)

TREATMENT, STORAGE OR DISPOSAL (TSD) FACILITY

ADVANCED ENVIRO. TECH. CORP.

PHONE (INCLUDE AREA CODE) 201-347-1909

EPA ID NO. NJD08063136

SITE ADDRESS (STREET - CITY - STATE - ZIP CODE)

GOLDMINE RD MT OLIVE N.J.

IF MORE THAN TWO TRANSPORTERS ARE TO BE UTILIZED, FILL OUT THE FOLLOWING AS APPROPRIATE

THIS FORM IS NO. 2 OF A TOTAL OF 2 THE FIRST MANIFEST DOCUMENT NO. IS NJ-0000562

1.	PROPER US DOT SHIPPING NAME	US DOT HAZARD CLASS	UN NUMBER	FORM	NET QUANTITY	UNITS	CONTAINERS		EPA HAZ CODE	EPA WASTE T
							NO.	TYPE		
1.	ORGANIC PEROXIDE LIQUID NOS.	ORGANIC PEROXIDE	NA 9183	1	---	1	3	1	04	R DOL
2.	CHEMICALS NOS.	DOT NONE REGULATED	NONE	2	8.00	3	4	01	---	NONE
3.										
4.										
5.										
6.										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION (i.e. IDENTIFICATION OF ADDITIONAL WASTES INCLUDED SHIPMENT OF A NONHAZARDOUS NATURE WHICH DO NOT HAVE TO BE MANIFESTED)

GENERATOR'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, marked and labelled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The wastes described are consigned to the Transporter named. The Treatment, Storage or Disposal Facility can and will accept the shipment of hazardous waste, and has a permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S SIGNATURE

TITLE

DATE SHIPPED

EXPECTED ARRIVAL DATE

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT

TRANSPORTER NO. 1 VEHICLE ID NO.

DATE RECEIVED

TEAR AT THIS DISCREPANCY

TEAR AT THIS DISCREPANCY

PART B: GENERATOR'S COPY

TRANSPORTER NO. 1 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF RECEIPT OF SHIPMENT

TRANSPORTER NO. 2 SIGNATURE AND CERTIFICATION OF DELIVERY AND NON-TAMPERING WITH SHIPMENT

TRANSPORTER NO. 2 VEHICLE ID NO.

DATE DELIVERED

DATE RECEIVED

DATE DELIVERED

TREATMENT STORAGE OR DISPOSAL FACILITY INDICATION OF ANY DIFFERENCES BETWEEN MANIFEST AND SHIPMENT OR LISTING OF REASONS FOR AND DISPOSITION OF REJECTED MATERIALS

HANDLING METHOD

TREATMENT STORAGE OR DISPOSAL FACILITY SIGNATURE & CERTIFICATION

TITLE

DATE RECEIVED

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the N.J. Dept. of Environmental Protection (609) 292-5560 (Day) (609) 292-7172 (Night)

DOCUMENT NO. NJ 0000564

TO BE FILLED OUT BY GENERATOR

TO BE FILLED OUT BY TRANSPORTER

TO BE FILLED OUT BY TSD FACILITY

REFERENCE NO. 13

To:File	Date:August 5, 1993
From:Andrew Clibanoff	Project #:8003-053
Subject:Results of File Searches	Site Name:National Starch and Chemical Corporation

Numerous attempts to find additional documentation concerning the waste dump at the National Starch and Chemical Corporation (NSCC) site have been made, but no more information above what Ms. Donna van Veldhuisen, NJDEPE, supplied could be located.

A Department-wide request for access to NSCC's files was made to the NJDEPE's Office of Legal Affairs in April, 1993. A file search in NJDEPE's Central File room on State Street in Trenton was conducted on May 21, 1993. The Bureau of Hazardous Waste Engineering (BHWE), Advisement & Manifest (BAM), as well as the Manifest Section were reported by NJDEPE to also possess NSCC site files. Finally, a file search was conducted at the Bridgewater Township Department of Health (DOH) on July 9, 1993.

Information obtained during the Central File file review pertained mainly to a New Jersey Pollutant Discharge Elimination System-Discharge to Groundwater (NJPDES-DGW) Permit (NO. NJ0032506). The permit allowed for the treatment in a lined treatment unit of soil contaminated with No. 2 fuel oil from two leaking underground storage tanks (USTs). The permit was issued on August 31, 1987. The types of wastes associated with this permit fall within the parameters of the petroleum exclusion definition.

The BHWE was visited on June 25, 1993 at their Ewing office on 33 Arctic Parkway. The NSCC site file at the BHWE contained mainly financial statements for the corporation. The BAM sent computer records of manifests documenting shipments made from NSCC to various Treatment, Storage and Disposal (TSD) Facilities. The sheets that show shipments that correspond with the removal dates (May - June, 1981) are included in this reference. These manifest records do not identify individual hazardous substances that were sent to the TSD facilities. No useful information was found in the site file contained in the Manifest Section.

The Bridgewater Township DOH file search failed to yield any new useful information. The DOH file contained permit information and numerous Compliance Evaluation Inspection Reports, most of which were given ACCEPTABLE ratings. Violations indicated in some of the reports were for exceeding Chemical Oxygen Demand (COD) permit limits. The DOH also had information about some of the products that NSCC manufactures.



State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Hazardous Waste Regulation Program
CN 421

Trenton, NJ 08625-0421
Phone# 609-633-1418

Scott A. Weiner
Commissioner

Frank Coolick
Administrator

Reference Number: 930504-10
Dr. Dennis Stainken
Malcolm Pirnie
104 Interchange Plaza
Cranbury, NJ 08512-9543

MAY 06 1993

RE: National Starch & Chemical aka Johns-Manville Co., 10 Finderne Ave.,
Bridgewater, NJ

Dear Dr. Stainken:

This letter is to acknowledge that the Hazardous Waste Regulation Program is in receipt of your Freedom of Information (FOI) request addressed to the Office of Legal Affairs and the Central File Room regarding the above-referenced site. Your April 20, 1993 correspondence has been referred to me and other Information Officers within the Department for a Department-wide response.

Please be advised that in order to ensure a more comprehensive response within the Hazardous Waste Regulation Program (HWRP), your request is being processed and distributed to all of our Record Custodians who potentially have files on the aforementioned subject matter.

Upon receiving their responses, I will be able to answer your request by providing you with the names of our Record Custodians who actually have a file on the above-referenced site. Pursuant to our Hazardous Waste Regulations, N.J.A.C. 7:26-17.4(g), this answer shall be processed and provided to you within twenty (20) working days from the date of this acknowledgement letter. Your request has been given the above HWR reference number and you will need to use this number when you contact the Record Custodian. Please be aware that I am only responsible for the HWRP; and therefore, if you have questions regarding other Divisions/Programs, you will need to contact the appropriate Information Officer.

General Freedom of Information requests should continue to be made in writing and addressed to the Office of Legal Affairs (Central File Room). However, in the future please send these requests directly to the attention of Ida Marie Engelhardt at the following address: 401 East State Street, 4th Floor, CN-402, Trenton, New Jersey 08625.

If I may be of any further assistance, please feel free to contact me at (609) 633-1418.

Very truly yours,

Rita L. Thornton
Rita L. Thornton, Information Officer
Hazardous Waste Regulation Program

RLT/abl



State of New Jersey
Department of Environmental Protection and Energy

Environmental Regulation
Hazardous Waste Regulation Program

CN 421
Trenton, NJ 08625-0421
Phone# 609-633-1418

Scott A. Weiner
Commissioner

Frank Coolick
Administrator

Reference Number: 930504-10

MAY 25 1993

Dr. Dennis Stainken
Malcolm Pirnie
104 Interchange Plaza
Cranbury, NJ 08512-9543

RE: National Starch & Chemical aka Johns-Manville Co., 10 Finderne Ave.,
Bridgewater, NJ

Dear Dr. Stainken:

Please be informed that the following Bureaus and Record Custodians have a
file on the above subject matter and/or reference site:

Ms. Lauri McGaughran
Bureau of Advisement & Manifest
(609) 292-8341

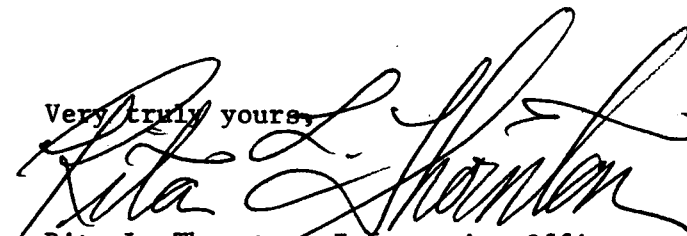
Mr. Anthony Drumblings
Bureau of Hazardous Waste Engineering
(609) 292-9880

Ms. Aneeta Sukheja
Manifest Section
(609) 292-7081

If you would like to review or discuss these files, please contact the
appropriate Record Custodians listed above. However, for internal tracking
purposes, you will not be able to obtain information from these Custodians
without using the above reference number which is only valid for the above
referenced site.

Thank you for your cooperation.

Very truly yours,



Rita L. Thornton, Information Officer
Hazardous Waste Regulation Program

RLT/abl



State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Hazardous Waste Regulation Program
CN 421
Trenton, NJ 08625-0421
Phone# 609-633-1418

Scott A. Weiner
Commissioner

Frank Coolick
Administrator

JUN 25 1993

Response To Request For Information

Dear Mr. Stawken:

In response to your recent information request, we are happy to forward the enclosed information.

If you should have any questions regarding this information or if you should need further assistance, please feel free to call Ferdinando at (609) 292-7081.
Scacetti

Very truly yours,

Norine Binder

Norine Binder, Acting Bureau Chief
Bureau of Advisement and Manifest

PR12:dlv

HWR1531
06/22/93

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

PAGE 8

WASTE MANIFESTS FROM 01/01/80 TO 12/31/87
FROM GENERATOR NJD001519230 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
NATIONAL STARCH & CHEMICAL 10 FINDERNE AVE BRIDGEWATER , NJ NJD001519230	ADVANCED ENVIRONMENTAL TECH 520 SPEEDWELL AVENUE MORRIS PLAINS , NJ NJD080631369	NJA0383766	11/10/87	D001	CHARACTERISTIC OF IGNITABILITY	1360 P
				D002	CHARACTERISTIC OF CORROSIVITY	140 P
				X940	POISON/PESTICIDE,NOS	400 P
				D010	SELENIUM	10 P
				D007	CHROMIUM	10 P
		NJA0388525	12/08/87	F005	NONHL SOLV & STLBTM	180 P
				D001	CHARACTERISTIC OF IGNITABILITY	180 P
				F003	NON HAL SOLV & STLBTM	1040 P
				D001	CHARACTERISTIC OF IGNITABILITY	80 P
				D001	CHARACTERISTIC OF IGNITABILITY	10 P
				D002	CHARACTERISTIC OF CORROSIVITY	240 P
				D002	CHARACTERISTIC OF CORROSIVITY	20 P
				X940	POISON/PESTICIDE,NOS	60 P
				X850	PACKED LABORATORY CHEMICALS	140 P
		NJ00000219	06/15/81	X910	CHEMICAL PROCESS-SOLID,NOS	1250 P
		NJ00000220	06/26/81	D001	CHARACTERISTIC OF IGNITABILITY	10050 P
				X900	CHEMICAL PROCESS-LIQUID,NOS	300 P
				D002	CHARACTERISTIC OF CORROSIVITY	450 P
				X910	CHEMICAL PROCESS-SOLID,NOS	300 P
		NJ00000562	05/21/81	D002	CHARACTERISTIC OF CORROSIVITY	35 G
				D002	CHARACTERISTIC OF CORROSIVITY	10 G
				X940	POISON/PESTICIDE,NOS	10 G
				X910	CHEMICAL PROCESS-SOLID,NOS	40 P
				D001	CHARACTERISTIC OF IGNITABILITY	1 G
				D003	CHARACTERISTIC OF REACTIVITY	1 G
		NJ00000564	05/21/81	D003	CHARACTERISTIC OF REACTIVITY	1 P
				X910	CHEMICAL PROCESS-SOLID,NOS	800 P
		NJ00053885	02/23/82	D001	CHARACTERISTIC OF IGNITABILITY	300 P
				D002	CHARACTERISTIC OF CORROSIVITY	2 G
				D002	CHARACTERISTIC OF CORROSIVITY	450 P
				X940	POISON/PESTICIDE,NOS	300 P
				D002	CHARACTERISTIC OF CORROSIVITY	30 P
				D002	CHARACTERISTIC OF CORROSIVITY	10 P
		NJ00053886	07/21/83	D001	CHARACTERISTIC OF IGNITABILITY	356 P
				D002	CHARACTERISTIC OF CORROSIVITY	174 P
				D002	CHARACTERISTIC OF CORROSIVITY	89 P
				X940	POISON/PESTICIDE,NOS	59 P
				D002	CHARACTERISTIC OF CORROSIVITY	935 P
				U013	ASBESTOS	100 P

5

WASTE MANIFESTS FROM 01/01/80 TO 12/31/87
FROM GENERATOR NJD001519230 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
NATIONAL STARCH & CHEMICAL 10 FINDERNE AVE BRIDGEWATER , NJ NJD001519230	ADVANCED ENVIRONMENTAL TECH 520 SPEEDWELL AVENUE MORRIS PLAINS , NJ NJD080631369	NJ00067027	02/22/83	D001	CHARACTERISTIC OF IGNITABILITY	872 P
				D001	CHARACTERISTIC OF IGNITABILITY	17 P
				D001	CHARACTERISTIC OF IGNITABILITY	35 P
				D002	CHARACTERISTIC OF CORROSIVITY	594 P
				D002	CHARACTERISTIC OF CORROSIVITY	140 P
				X940	POISON/PESTICIDE,NOS	92 P
		NJ00067034	06/30/81	D002	CHARACTERISTIC OF CORROSIVITY	125 G
				D002	CHARACTERISTIC OF CORROSIVITY	75 G
				D002	CHARACTERISTIC OF CORROSIVITY	6 G
				D002	CHARACTERISTIC OF CORROSIVITY	1 G
				D003	CHARACTERISTIC OF REACTIVITY	1 G
		NJ00099454	02/23/82	X850	PACKED LABORATORY CHEMICALS	450 P
		NJ00117978	07/21/83	F002	SPT HAL SOLV&STLBTM OF DEGREAS	98 P
		NJ00190577	10/27/83	D001	CHARACTERISTIC OF IGNITABILITY	15 P
				D001	CHARACTERISTIC OF IGNITABILITY	2 P
		NJ00227337	07/31/84	D001	CHARACTERISTIC OF IGNITABILITY	200 P
				D001	CHARACTERISTIC OF IGNITABILITY	200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1600 P
		NJ00239969	09/18/84		NO LINE ITEMS FOR THIS MANIFEST	
	AMERICAN INDUSTRIAL WASTE CO INDUSTRIAL DRIVE WHITE BLUFF , TN TND980729305	NJA0174554	03/11/86	X387	POLYCHLORINATED BIPHENYL,N O S	26390 P
				X387	POLYCHLORINATED BIPHENYL,N O S	120 P
				X387	POLYCHLORINATED BIPHENYL,N O S	1050 P
				X387	POLYCHLORINATED BIPHENYL,N O S	1850 P
	B & L CORP 472 FRELINGHUYSEN AVE NEWARK , NJ NJD064981988	NJA0374682	10/13/87	X722	WAST OIL/BTM RES/COMM TANK CLN	584 G
		NJA0390016	12/11/87	X722	WAST OIL/BTM RES/COMM TANK CLN	1178 G
		NJ00053888	02/23/83	X722	WAST OIL/BTM RES/COMM TANK CLN	1427 G

WASTE MANIFESTS FROM 01/01/80 TO 12/31/87
FROM GENERATOR NJD001519230 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
NATIONAL STARCH & CHEMICAL 10 FINDERNE AVE BRIDGEWATER , NJ NJD001519230	CECOS INTERNATIONAL INC 56TH ST & PINE AVE NIAGARA FALLS , NY NYD080336241	NJ00000561	05/21/81	X910	CHEMICAL PROCESS-SOLID,NOS	35000 P
		NJ00000563	05/21/81	X910	CHEMICAL PROCESS-SOLID,NOS	37000 P
		NJ00000565	07/21/83	D001	CHARACTERISTIC OF IGNITABILITY	13400 P
		NJ00053884	02/22/82	D001	CHARACTERISTIC OF IGNITABILITY	10650 P
				F001	SPT HAL SOLV&SLUDG DEGREAS OPE	150 P
				D002	CHARACTERISTIC OF CORROSIVITY	150 P
				X850	PACKED LABORATORY CHEMICALS	150 P
		NJ00117209	03/11/83	D001	CHARACTERISTIC OF IGNITABILITY	7150 P
				X910	CHEMICAL PROCESS-SOLID,NOS	300 P
		NJ00131522	03/17/83	X387	POLYCHLORINATED BIPHENYL,N O S	90 P
		NJ00131841	09/20/82	D001	CHARACTERISTIC OF IGNITABILITY	78 P
				D001	CHARACTERISTIC OF IGNITABILITY	249 P
				D002	CHARACTERISTIC OF CORROSIVITY	98 P
				D002	CHARACTERISTIC OF CORROSIVITY	87 P
				X940	POISON/PESTICIDE,NOS	25 P
				F002	SPT HAL SOLV&STLBTM OF DEGREAS	113 P
		NJ00131842	09/20/82	X850	PACKED LABORATORY CHEMICALS	292 P
				D001	CHARACTERISTIC OF IGNITABILITY	5320 P
		NJ00166651	10/27/83	D002	CHARACTERISTIC OF CORROSIVITY	166 P
				X940	POISON/PESTICIDE,NOS	207 P
				X850	PACKED LABORATORY CHEMICALS	1900 P
		NJ00190579	10/27/83	D001	CHARACTERISTIC OF IGNITABILITY	7800 P
				D001	CHARACTERISTIC OF IGNITABILITY	397 P
				D002	CHARACTERISTIC OF CORROSIVITY	672 P
				D001	CHARACTERISTIC OF IGNITABILITY	436 P
				D001	CHARACTERISTIC OF IGNITABILITY	78 P
				D002	CHARACTERISTIC OF CORROSIVITY	131 P
		NJ00205096	03/02/84	D001	CHARACTERISTIC OF IGNITABILITY	3974 P
				D001	CHARACTERISTIC OF IGNITABILITY	315 P
				D001	CHARACTERISTIC OF IGNITABILITY	82 P
				D002	CHARACTERISTIC OF CORROSIVITY	543 P
				D002	CHARACTERISTIC OF CORROSIVITY	114 P
				X850	PACKED LABORATORY CHEMICALS	197 P
		NJ00205161	03/02/84	X940	POISON/PESTICIDE,NOS	70 P
		NJ00227338	07/31/84	D001	CHARACTERISTIC OF IGNITABILITY	11400 P

REFERENCE NO. 14

To: John Rieckhoff**Date:** July 30, 1993**From:** Andrew Clibanoff**Re:** National Starch and Chemical Corporation Site Status

National Starch and Chemical Corporation (NSCC) is an Environmental Priorities Initiative - Preliminary Assessment (EPI-PA) Report that was prepared as a letter report and submitted to EPA in September, 1992. The New Jersey Department of Environmental Protection and Energy (NJDEPE) informed the EPA by letter that a former chemical dump area used by Johns-Manville (former owners of the NSCC property) was not addressed in the EPI-PA report. Containers of waste materials were packed with dirt in cement pipes which were then buried in a clay lined pit, stabilized with suitable fill, and covered with an impervious top.

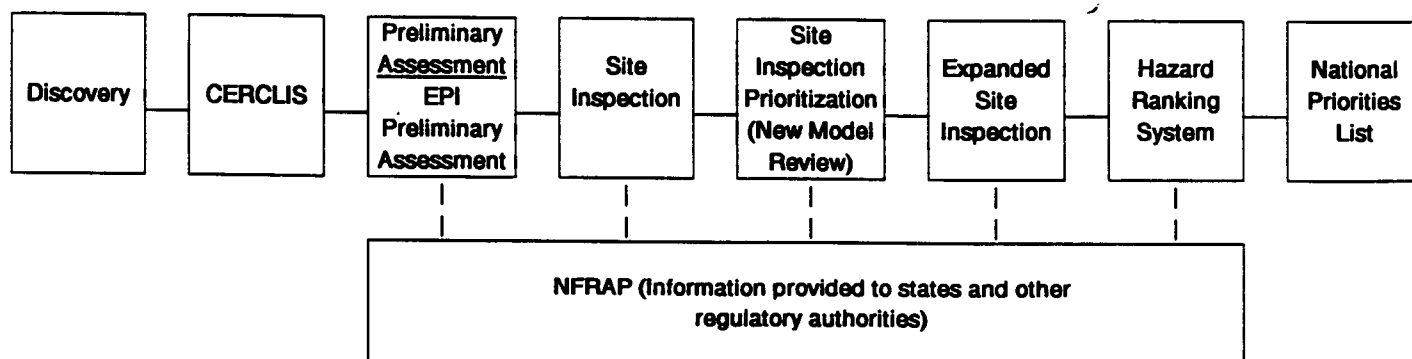
The contaminants in the dump were removed from the site and were transported to proper off-site disposal areas via the State manifest system when NSCC purchased the property in 1981. NSCC reported that all containers were intact upon excavation and there was no evidence of soil contamination. The manifests classified the removed materials into categories such as corrosive, alkaline, hazardous waste solids, etc. The material was not sampled for TCL or TAL constituents.

File searches have been conducted at the NJDEPE in Trenton, NJ, and also at the Bridgewater Township Health Department to gather more information on the dump area. No new useful information was discovered during these searches.

The available documentation indicates that the removal of wastes from the dump area is a qualified removal as defined by EPA. Residual soil contamination in the remaining soils in the dump area vicinity is not suspected as the cement pipes containing the wastes were intact at the time of removal. Therefore, it is recommended that this historical waste source not be further evaluated and that the submitted EPI-PA letter report be allowed to stand as is.

ATTACHMENT 2

SUPERFUND SITE ASSESSMENT PROGRAM



SITE ASSESSMENT REPORTS

1. PRELIMINARY ASSESSMENT

- * Quick Review of Readily Accessible Records and Reports
- * Undertaken to Determine the Existence of a Problem and the Need for Further Action at a Site by Characterizing:
 - Magnitude of the Hazard
 - Source and Nature of the Release or Potential Release
 - Identification of Targets
- * Does Not Include Sample Collection

2. SITE INSPECTION

- * The Purpose of the Site Inspection is to:
 - Further Define and Characterize the Problem
 - Provide Data for the Hazard Ranking System (HRS) Scoring and Compute Initial Score
 - Identification of Targets
 - Determine the Necessity of Further Action
- * The Site Inspection Involves an On-Site Visit and Sampling (10+/- Samples)
- * A Site Inspection is not an Extent of Contamination Study

3. SITE INSPECTION PRIORITIZATION

- * Quick Review of Readily Accessible Records and Reports
- * Undertaken to Determine the Validity and Update Background Conditions Under the New HRS Model, and the Need for Further Action at a Site by Characterizing:
 - Magnitude of the Hazard
 - Source and Nature of the Release or Potential Release
- * Included On-Site Visits or Sample Collection as needed
 - Analyze Samples/Limited Analytical Resources
 - Account for Significant Safety Hazards On-Site

4. EXPANDED SITE INSPECTION

A Follow-Up Inspection May Be Recommended After the SI To:

- * Gather Additional Data Necessary to Strengthen or Substantiate the Initial HRS Score
 - Geophysical Surveys
 - Installation of Groundwater Monitoring Wells
 - Additional Sampling

Review of Analytical Data

If previous analytical data are available, they should be reviewed for information which supports the design of the sampling and analysis program, tests site hypotheses, and documents the site score. The SI investigator should review all previous analytical data. While analytical data collected for other purposes may not meet SI objectives, site-specific analytical data are generally helpful in better understanding the nature of the problem at the site, regardless of data sources or data quality. The depth of the review depends on the overall quality and quantity of data, the intended use of the data, and whether they are representative of current site conditions and comparable to SI data. Determining whether available data can be applied as SI-generated data requires the professional judgement of an experienced reviewer. Both validated and non-validated analytical data may be available. Previous SI data will be validated and of CLP-quality. Non-validated data may contain false positives and false negatives, as well as quantitation, transcription, and calculation errors. If data of unknown or questionable quality are used for decision-making, the investigator should review all available information to assess the level of certainty associated with the data. If these data are used for HRS documentation, data validation will be necessary. The investigator should be able to determine the general quality of the data set by reviewing QC data for evaluation under the Superfund Program.